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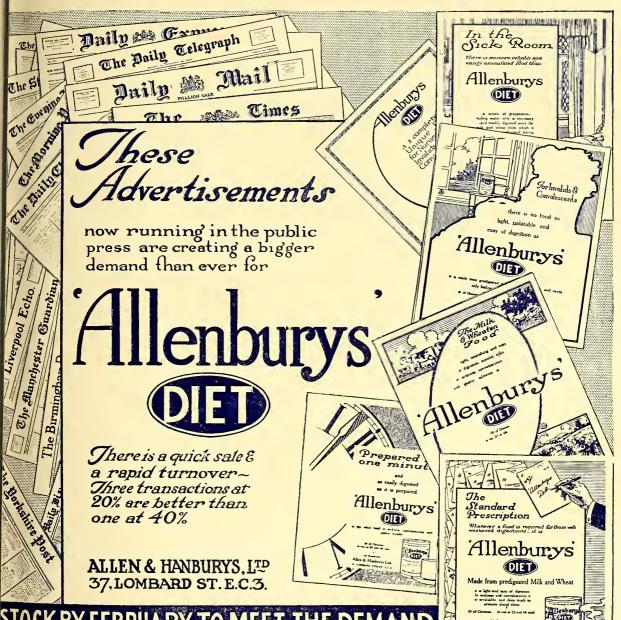
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JANUARY 31, 1920

VOL. XCII





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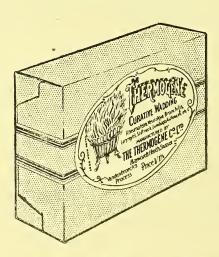
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					_	Trad:
				Retail		Price.
				per		per
				doz.		gross.
Size	0			1/3		12/4
,,	1	• • •	• • •	1/9	• • •	16/2
,,	2			2/3		20/9
12	3	•••		2/9		25/4
**	4	•••		3/-		27/8
11	X			3/9	٠	34/7
,,	5			3/9		34/7
,,	XX			4/3		39/3
11	"Bh	ıe"		41-		37/-
South	alls'	Wasi	hable	Tow	els.	
					_	
Size	1 w	•••		Uı	naltei	red.
,,	2 w			10/-		92/3
**	3 w		• • •	13/6	• • •	124/6

Southalls' Sanitary Towels.

**	"DI.	.;;	•••	41	•••	37/-
						31/-
South	alls'	Was	hable	Tow	els.	
						red.
,,	2 w			10/~		92/3
**	3 w		•••	13/6		124/6
South	alls'	Nur	sinó	Anron	15	

Sout	halls	Nursi	ng .	Apror	IS.	
No.	0 (21	×30	in.)	2/6		23/1
,,	1 (27	$\times 30$,,)	3/6	• • • •	32/3
**	2 (30	\times 36	,,)	4/6		41/6

Southalls Suspenders.

			Retail		Trade Price.
Shap	ed.		each.		per doz.
No. O			U	naltei	
,, 1		•••	016	,,	2211
,, 2	• • •		2/6	• • •	23/1
Corset			-/6		4/7

Southalls' Sanitary Knickers

No.	1			Unaltered.
,,	2			7/ 64/6
,,	3	• • • •	• • •	14'6 133/9
,,	4	• • •	• • •	Unaltered.
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Southalls' Breast Shields.

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No.	1	 	Ur	ialtei	red.
	2	 	9.6		87/8

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91		•••	•••	-/7		5/4
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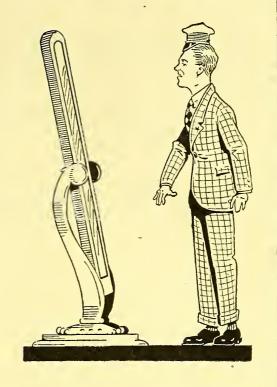
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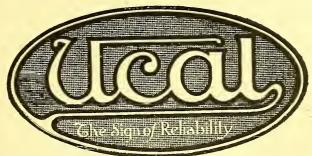
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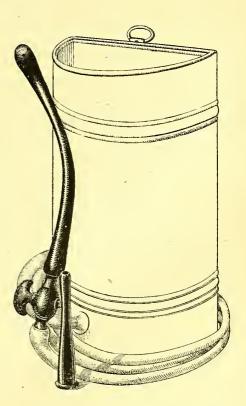
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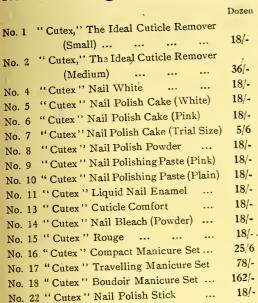
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You have only to Dye once-

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Put a gross outer—very effective outers they are—on your counter and introduce the Dyes to your customers—they will appreciate the point in paragraph one. Clothes are so costly, they must yield more service than in the old wasteful days and "Eagle" Dyes will help them to do so by providing that attractive freshness of colour without which life is drab indeed.

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For WOOL and SILK.
For COTTON.

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Black. Light Green.
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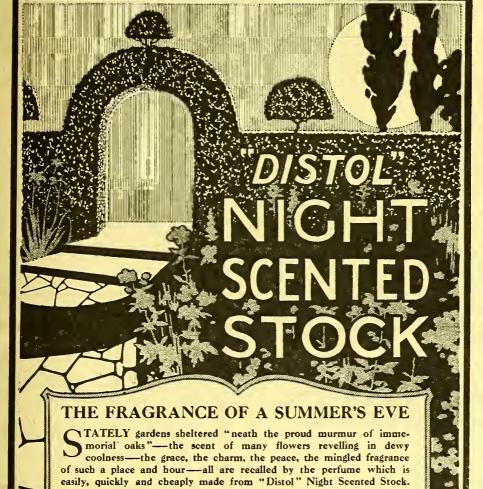
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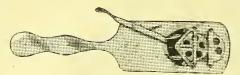
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The "Rex" Electric Brush is greatly improved, stronger and better finished.



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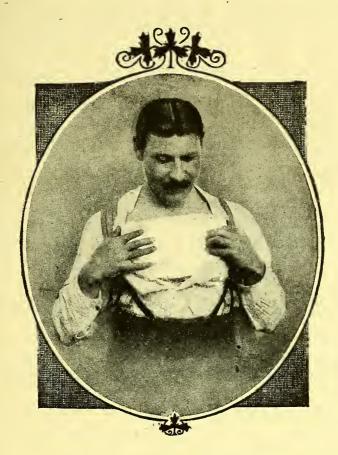
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Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

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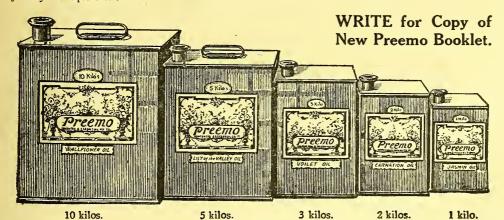
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Having discovered their incomparable



Quality, Purity and Odour, and noted the satisfaction which they give to your customers, you would not be content to go back again to the use of inferior Oils.

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at $28/-\dots$ $(2 \times \frac{1}{4}$ -doz. outers)

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"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



"LEONA" DENTAL CREAM

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Small Size ... Cost 4/6 per dozen Sell @ $7\frac{1}{2}$ d Large Size ... , 8/- ,, , @ 1 3

Recommended by the Institute of Hygienc.

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Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

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REFILLS to MIRROR CASES in WHITE OF RACHEL 1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only)

2/8 per doz. net.

THE ALL-BRITISH "POPPŒA" PREPARATIONS.



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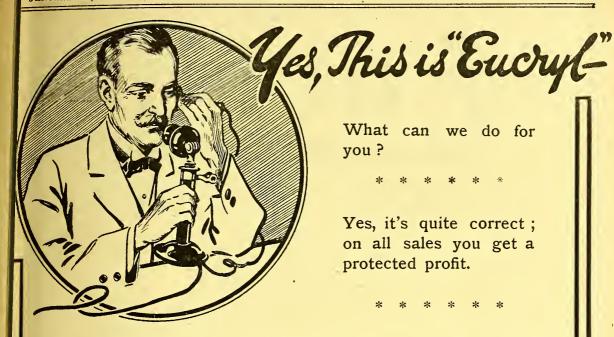
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Three tints-White, Pink and Cream.

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The Dye with a Reputation for reliability.

SEVEN SHADES.

1/6 size 12/- doz, 2/6 size 18/- doz, P.A.T.A.

The only de giving a natural gloss to the hair.

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THE GOLD MEDAL FRUIT DRINK. tok Seller. Big Profits. Over 40 Years' Reputation.
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Sold in Packets, 1¹d. each; Boxes of 13 packets, 1¹6.
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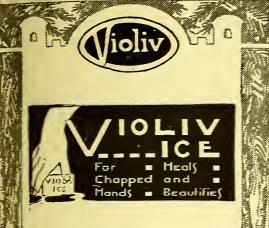
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ASSORTED ODOURS AND COLOURS.

7 - per doz.



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/6 Wavcurl (in packets) 9/- /9 Wavcurl (in bottles) 21/- /6 Complexion Cream 10/-	Per doz. 1/6 Duvetine (Superfluous Hair Remover) 9/- 1/6 Waveurl Hair Tonic (9 in Powdered Form) 9/- 1/6 Eyelashine 9/- Showcards for Window 1 no Dummies for Show / charge
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99 Camomile Tonic SHAMPOOS

are the most popular hair beautifying preparations on the market.

PROFITABLE LINES.

1/- line, for brightening only, 7/- per doz,

for warmer shades

for the Nursery 5 packets in box.

Once sold, always asked for.

Supplied direct by

The CAMOMILE TONIC Co.

16 Lichfield Rd., Cricklewood, N.W.2

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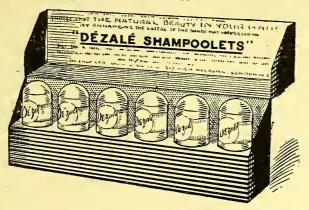
We are going to advertise this line extensively. Order a stock now so that when your customers ask you for

EZALE SHAMPOOLETS

you will be able to supply them.

10d. each RETAILS

1/3 each



3/8 per box of 6 RETAILS **5/6** per box

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Always in Great Demand. Price List on Application.

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The successful Remedy for PYORRHEA. Prescribed by the Dental Profession.

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ver doz. ... 6d. 2/3 per tube
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... ... 2/6 each Attractive discounts to retailers willing to push these Specialities.

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OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.		Minimum wholesale.		
1/-	•••	1/-	•••	7/6	
1/6	•••	1/6	•••	9/-	per doz.
2/6	•••	2/6	•••	15/-	less 5% discount.
3/6	•••	3/6	•••	21/-)	discouns.

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

do. Do. 6 doz. 8 bottles gratis. 12 doz. do 18 bottles gratis. Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors-

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		to.	er doz. Retail er. P	
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A complexion soap.			401	
PROLACTUM	-	-	10/-	1/-
For the lips.	T T 37		10/	4/
PARSIDIUM JE	LLY	-	10/–	1/-
ALLACITE of O	PAN	GE	22/6	2/6
	OSSC		22/0	2/0
	000	7141	00/0	0/0
BORANIUM A hair tonic.	-	-	22/6	2/6
CLEMINITE			22/6	2/6
For a face lotion.	•	-	22/0	2/0
COLLIANDUM		_	22/6	2/6
For a face tint.	_		,0	_, _
PERGOL -	_		22/6	2/6
A deodorant.				
STALLAX -	-	-	22/6	2/6
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JETTALINE	-	-	31/6	3/6
For clearing the skin.			261	A /
PHEMINOL A depilatory.	-	-	36/-	4/-
MENNALINE	_	_	36/-	4/-
For the eyelashes.	_	-	30,	
MERCOLIZED '	WA2	ζ	31/6	3/6
A face cream.		_	, -	-, -
STYMOL -	-	-	36/-	4/-
For oily complexions and	blackhe	eads.		- 1-
BARSYDE -	-	-	22/6	2/6
Dandruff eradicator.			00/0	0/0
TAMMALITE	-	-	22/6	2/6
For grey or faded hair,	T		31/6	3/6
LIQUID PERGO To check excessive perspi	iration 1	locally.	31/3	3/3
BICROLIUM		_	22/6	2/6
For whitening the hands.			,	_, _
HARAPOSA -	-	-	22/6	·2/6
Nut oil shampoo.				
				10=0

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

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ALL WHOLESALERS and
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PACKED IN

COLLAPSIBLE TUBES.

White "X" Series.

Toilet Lanoline	4×3	4 ×
Antiseptic Honey Jelly	4/3	6.9
Milk of Cucumber		6.9
Oatmeal Cream	4/3	6 9
Witch Hazel Cream	4/3	65
Best Cold Cream	56	7,5

TOOTH PASTES

(White "X")

Cherry, Areca Nut, White Rose, Carbolic, 4'3 Formalin and Mint, Thymol, etc.

If each in a carton, 6 - per gross extra.



SPECIAL LINE

65

SPLENDID SELLER.

Antiseptic Tooth Paste 5/3 dozen (White "X") each in carton. Pomade Hongroise, $4 \times \frac{3}{4}$ 4/3 doz.

Special Quotations for Quantities.

"X Series" TIN BOXES

In Variety.

Inquiries Esteemed.

THE

Chemists' Manufacturing Co., Ltd.

WITH WHICH IS INCORPORATED

Whitecross Works.

123/125 Newington Causeway -S.E.1. Exclusively for Chemists.

PRICE'S ZINCO-CREAM SOAP

(In the black and amber package, with highly effective showcard).

Prepared with

OXIDE OF ZINC, SULPHUR AND LANOLINE

and

Reserved Exclusively for Chemists.

Further details and illustrations shortly.

Meantime, if this article interests you, ask us for specimen sample tablet



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BIG
PROFITS
QUICK
RETURNS

Are the results whenever a Chemist places the "Quin Quenna" Girl display in his window. The time of year does not matter, the sales are always there and likewise the big P.A.T.A. profit, because our advertising is adapted to the Season, and never loses its "snap" cleverness or volume. No line is surer in its sales than

Quin Quenna

If you would simply write "QUINTHREE"

on a postcard bearing your name and address we should immediately send you

3 x 6 dozen Cartons. 3 Dozen Bonus. Showcards. Wrappers, Bills and Counter Folders.

Also the

QUIN QUENNA GIRL WINDOW DISPLAY

This is a costly production, and we are speedily g tting to the end of them so popular are they. It is in five shades of sepia. Is the most attractive, simplest and hest pulling idea yet, and those who seriously want some should not put off sending that postcard any longer; indeed, they will do best for themselves to sit down and write

"QUINTHREE" now before they are all gone.

P.A.T.A.

6d.

PER PKT.

PRICE

4/Dozen.

YOUR

PROFIT

SALES



THOS. CHRISTY & CO., 4/12 OLD SWAN LANE, LONDON, E C.4

STRODONIA

Vanishing Cream.

For displaying a small showcard we make the following offer on INITIAL DIRECT ORDERS (one parcel only).

1 doz. 10 d. selling for 10/6 } 18/-

For 10/- Cash with order. Carriage Paid.
10/1d. and 1/3 ... 7/6 & 10/6 per dozen

FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10 0 subject to ½-doz. 1/3 size Bonus for window display, net. £1/10/0 subject to ½-doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL

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MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

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WHOLESALE ONLY-PROMPT DELIVERY.

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KEEPS AWAY MOTH. LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A.
Retail Price 6d.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,

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AND ALL WHOLESALERS.

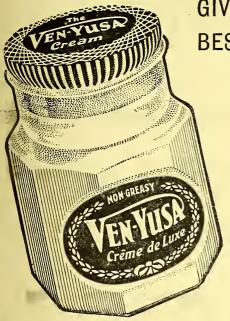
THE ONLY POPULAR SHILLING FACE CREAM ON THE MARKET

Ven-Yusa Cream

IS STILL ONE SHILLING.

GIVES YOU 33\frac{1}{3}\% PROFIT ON SALE

BEST TERMS FOR 50/- FARCEL





DAINTY AND ATTRACTIVE FOR THE COUNTER.

BEAUTIFUL SHOWCARDS SUPPLIED.

Any War Packages (Plain Corks) exchanged Free of Cost.

Write for Window-Show Terms to

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A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



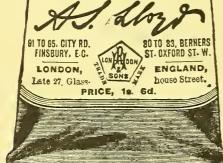
A. S. LLOYD'S EUXESIS

FOR SHAVING WITHOUT THE Use of SOAP or Water.

DIRECTIONS FOR USE.

Unscrew he cap at the top, and gently press the broad end, always taking or re to do so from the bottom, by which the tube is rendered perfectly air-tight; when enough is obtained apply it to the beard either with a small soft brush or the finger, rubbing it a little; then apply the razor, and although but little of the Euxesis be seen on the face, the beard will be removed with the greatest ease and comfort. It will be found very beneficial to wash before shaying. It is not intended to make a lather like soap. When the tube is not unues, besure to screw on the cap again.

Sold in Collapsible Tubes, at 1s. 6d. and 3s. Sold in Collapsible Tubes, at 1s. 6d. and 3s. By the Original & Sole Manufacturer & Proprietor



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD., LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C. The Anti-Dress Shield Toilet Water.



Effectively corrects excessive perspiration.

Extensively advertised in American and English periodicals.

SHOWS GOOD PROFIT.

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To Northern Traders

Toilet Goods.

We SPECIALISE in TOILET COODS. a DEPARTMENT, but our SOLE BUSINESS.

TOILET PREPARATIONS of every description

TOILET BRUSHES for all purposes TOILET COMBS & HAIR ORNAMENTS in great variety

TOILET REQUISITES of all kinds TOILET SOAPS, CREAMS & POWDERS, nearly all brands

If in Lancs, Cheshire, N. Wales or Potteries; if in Yorks, Nottinghamshire, Lincolnshire or Midlands; if in Northern Counties, Newcastle district or Scotland-drop a line to the House, and we will arrange for our representatives for those districts to call. No Catalogues.

IT WILL REPAY YOU.

W. E. BINGHAM & co.

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For Shaving without Soap, Water, or Brush.

CAUTION.

he Labels on GENUINE EUXESIS bear two signatures— A. S. Lloyd in Black Ink, and that of his Widow, Aimée Lloyd, in RED. Refuse any other.

Proprietors:

ole Manufacturers and AIMEE LLOYD & CO.

PANTON STREET (formerly named Spur Street), HAYMARKET, LONDON, S.W.

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Profit by the Growing Demand for Snowfire.

Large numbers of women doing outdoor or indoor work are buying They have Snowfire regularly. discovered its cleansing, softening and beautifying influence upon the skin—how it keeps the hands white and dainty.

Sells freely all the year round. Specially valuable in Winter for Chapped Hands, Cracked Lips, or Roughened and Irritated Skin.



Well advertised. Shows good profits. Attractive publicity matter free. Goods carriage paid to your door. For Price List write

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IN POTS, TINS, OR BULK.

A BSOLUTELY DEPENDABLE. BRINGS REPEATS EVERY DAY.

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FOR CHAPPED HANDS

A QUICK WINTER SELLER.

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DO NOT MISS £2.2.0 for THIS OFFER.

Never before in the history of advertised proprietaries has such an offer been made. There is only one condition, that is, you MUST promise when sending your cheque NOT to cut the selling price of 6d. We do not allow cutting.

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SAMPLES AVAILABLE.

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Well Advertised.

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TOILET **PREPARATIONS** are IRRESISTIBLE.

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Manufacturing Perfumers

ESSENCES and QUINTESSENCES in bulk

FANCY CASKETS . CUT-GLASS PERFUMES

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PECIALITY: Customer's

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SURGICAL DRESSINGS, SVRINGES, Etc PATENTEES OF THROAT SPRAYS.

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Special Depot for the Leading French Perfumes and TOILET **SPECIALTIES**

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ASPIRIN ACID ACETYLSALICYLIC

SUPER P.B. QUALITY.
Free from Acetic or Salicylic Acids.
Melting Point 135°.

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British Make.

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A British Product equal to Cream Tartar 98 p.c.
Superior from health standpoint
100 parts Neutralise
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Stop flow of blood at once.

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Identical with Sanatogen in composition, prices, packages, terms, etc.

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Throat Tablets

Reliable and Genuine.

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3/3 size 24/- dozen. 6/- ,, 42/-4-1b. tins 5/- lb.

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I manufacture according to Wulfing's expired patent a very fine All-British product fully equal to the original in all respects and more palatable, ready packed to sell at

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Absolutely pure and equal to Cream Tartar 100%.

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Think what that means to you as well as us. The uniform excellence of Icilma Toilet Preparations is so high that—"Once a buyer of Icilma always a buyer of Icilma"—has almost become an axiom.

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Pre - war Quality Guaranteed.

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SAVE 3/- PER GALLON

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OF NEW SEASON'S MAKE

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CHAPOTEAUT'S CAPSULES of

PHOSPHOGLYCERATE of LIME.

THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.

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MORRHUOL DE CHAPOTEAUT is extraoted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

It cures Coughs, Bronchitis and Caterrh, restores the appetite, and gives force to feeble persons.

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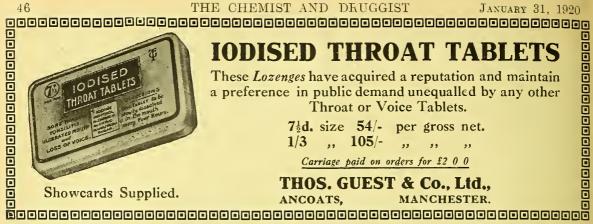
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WRIGLEY'S CHEWING GUM

and just why it is such a real help in keeping fit. You have, doubtless, noted the fact that WRIGLEY'S has the largest sale of any chewinggum in the world. You may have observed that its modest price places WRIGLEY'S within the reach of everyone.

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FRESH MINT LEAF FLAVOUR



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Aluminium. Nickelled Zinc & Tin.





Sizes. Zero to No. 44.

DISINFECTANT MEASURES IN ALUMINIUM. TWO SIZES.

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Split Skins, Baudruche—Transparent & Opaque CAPPING TWINE, RIBBONS, CORKS, etc. etc.

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Will be pleased to quote for and supply you with them. Phone: London Wall 5072.

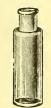
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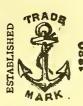
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NEAT, SIMPLE and STRONG DESIGN.

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We manufacture a complete plant for making bandages viz: Cloth Rolling and Measuring machine

Bandage Papering machine
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(70 cut bandages per minute)
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New Model Ball-Bearing Bandage Cutting and Trimming machine

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ROLLS, SHEETS, BOXES (collapsible)

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USTRATION of a Combination lottle Dryer specially designed for Manufacturing Chemists It consists bes, on which the large bottles are and cupboard in which small and al bottles are dried. Six to ten gross pe dried in the cupboard per hour, t the same time large bottles can be on the tubes at the rate of two and a day.

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so make special Plant for Drying Chemicals, Con ery and every kind of material. Also Dust Remov-i Ventilating and Warming Plant.

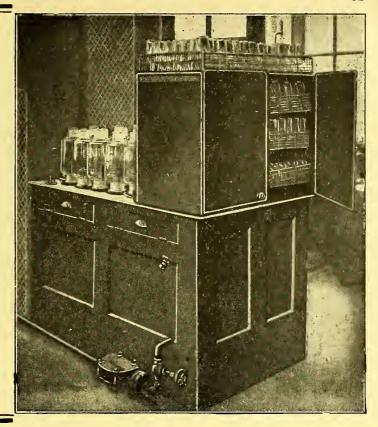
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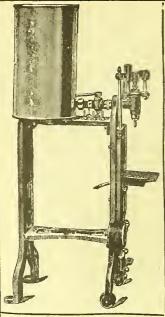
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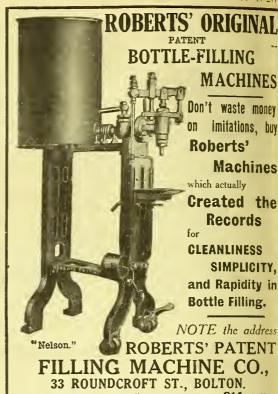
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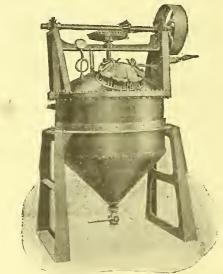
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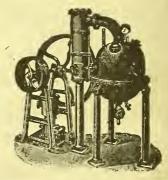






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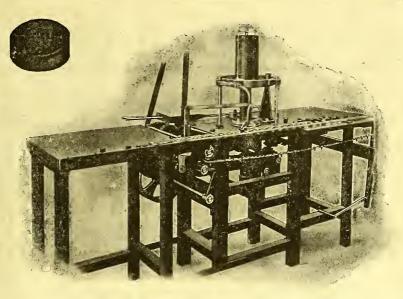
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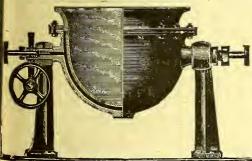
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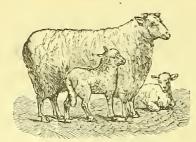
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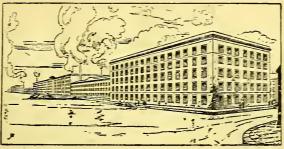
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Wills.

Mr. James John Giles, J.P., chemist and druggist, Wiltie Gardens, Folkestone, has left 13,690l., with net resonalty 10,631l. 9s. 5d.

Mr. Henry John Dalgleish, 91 Walworth Road, S.E. Ford, Shapland & Co., Ltd., who died on November 27, ft estate valued at 990%. 18s. 6d. gross, with net permalty 251. 9s. 9d.

MR. MATTHEW ROBSON, retired chemist, Prospect House, orbridge-on-Tyne, who died on September 11, has left state of the value of 9,2061. 10s. 1d., the net personalty eing 7,544l. 2s. 5d.

Mr. Ellis Elias, 206 Cromwell Road, Kensington, S.W., nairman of the British Oxygen Co., Ltd., who died on Sovember 21, left estate of the gross value 8.704. 15s. 3d., with net personalty 57,615!. 13s. 3d. gross value of

MR. ANDREW WARD GRAHAM, chemist and druggist. Therry Mount, Endmund Road, Sheffield, who died on une 7, has left 5,682l. 11s. 5d.. with net personalty .0177. 18s. The testator leaves his leasehold residence nd furniture to his wife, and the residue of the property n trust for her for life, and the residue in trust for his wo brothers and their children.

Experiences of the Great War.

Contributions to this section are invited.

XXV.—The Chemist as a Bomber.

THE CHEMIST who began an army career in the early part of the war as a junior subaltern little dreamed how in the later days his scientific experience would help him in the new profession into which he was suddenly thrust. When the Germans first used hand-grenades in trench warfare, in the early part of 1915, immense possibilities arose, and the far-seeing chemist immediately seized the opportunity to apply his scientific training. Schools were founded both in England and France, and hand-grenades became a most important factor in the great struggle. The first grenade to be used by the British was known as the "Jam tin." It consisted of an ordinary tin can filled with such shrapnel as nails, pieces of horseshoe, cartridge cases, ctc., the bursting charge being a guncotton primer. The fuse consisted of about 2 in. of ordinary time-fuse, to which was attached a commercial detonator. This fuse was fired by placing a matchhead on the exposed end and drawing a match-box across the head. These grenades were generally made in the front-line trenches, and naturally their manufacture was accompanied by great danger. The chemist was was accompanied by great danger. The chemist was generally in charge of the manufacturing operations, and his staff consisted of a few stalwarts, who were a source of anxiety to their comrades through the casual way they secreted detonators, etc., about their persons. The bombers at this stage were known as the "Suicide Club." The "Jam tin" grenade was speedily succeeded by the "Ball" grenades, which were cast-iron spheres filled with high explosive and fired as before. The powers that be decided to obviate the inconvenient firing method, and issued fusees with each box of grenades, these grenades being manufactured behind the line. The writer discovered, on several occasions, the fusees to be ordinary Bengal coloured lights. It can be imagined how convenient these would be in "No Man's Land" at night. More often than not it was impossible to fire the grenades owing to the effect of wet, both on the grenade and fusee. A modification of the school-boy's catapult was used to project these spheres, and it was in using this weapon that the bombers justly earned the title that was ascribed to their fraternity. For example, on one occasion, when using this weapon to hurl bombs into a German sap-head, the writer's hand became entangled in the mechanism of the machine. The bomb, being already alight, would have ended a promising career but for the presence of mind of an attendant "Suicider," who seized the bomb and hurled it over the trench. On occasion these machines would develop pro-German tendencies, and the bomb would be hurled in the wrong direction. All these dangers, however, were finally obviated by the perfection of the rifle grenade and the universal adoption of the Mi.Is hand-grenade: Throughout the evolution of the grenade the chemist, who had been a mi.d-eyed subaltern, now became the boon companion of brigademajors, and was known to dine with generals. As a result of applying his science he was described as a wizard. He was frequently withdrawn from the front-line trenches and placed in charge of a school of instruction, where he was daily threatened with death by inefficient would-be "Suiciders." Helping to train our armies in grenade fighting, chemists have been of greater service to their country than many people realise.

F. E. SMITH, B.Sc.

(Analytical Laboratory, C. R. Harker, Stagg & Morgan, Ltd.).

At the recent annual meeting of the staff connected with the benevolent and superannuation fund of W. Meadowcroft & Son, Ltd., essence manufacturers. Blackburn, Mr. James Meadowcroft, managing director, complimented the staff on its continued good health, and on the fact that the income of the fund had more than paid all claims during the year.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C, & D,"

Property Belonging to German Subjects.
The Board of Trade draw attention to the Order in Council under the Peace Treaty with Germany under which all the property, rights, and interests which are situate anywhere within the British Empire belonging to German nationals at the date when the Treaty came into ferce, irrespective of where the owner or owners may be resident, are charged for the purpose of securing the claims made by British nationals with regard to their property in Germany and debts owing to them by German nationals. The charge does not extend to any property which may have been acquired under the Board of Trade General Licence, dated July 12, 1919, authorising the resumption of trade with Germany. The Order provides that no person shall transfer or deal in any way with any property subject to the charge without the consent of the Custodian, and every person who owns or controls any such property must communicate the fact to the Custodian within three months unless particulars have already been furnished to him in accordance with the Trading with the Enemy Acts. If any person is asked to pay any money or deal in any way with property which he has reason to suspect is subject to the charge, he must immediately report the matter to the Custodian, and comply with his directions.

Medical Federation.

A deputation from the British Federation of Medical and Allied Societies waited on the Minister of Health on January 23 in reference to service under the National Insurance Acts. The medical delegates mostly occupied the field, but Mr. P. F. Rowsell, representing the Pharma-The medical delegates mostly occupied the centical Society, managed to get in a few words. He said that while the Society are agreed that the present system whereby the Government is responsible for the provision of medical and allied services for the millions of insured persons, and exercises so large a control over the public medical service, can be markedly improved, they are not prepared to commit themselves to details, but content themselves with assuring the Minister that in any attempts to improve the service they will gladly co-operate. Dr. Addison, in reply, asked the delegates to devise a scheme whereby the spcialised services could be brought with good will and common consent to minister to the public necessity. The type of medical service is at present being considered by the Consultative Council. The report is expected soon and will be made public at once.

Death in a Refrigerator.

The Southwark coroner held an inquest, on January 22, on the body of George William Harris (58), employed by Stafford Allen & Sons, Ltd., manufacturing chemists, Cowper Street, E.C. The evidence showed that on October 29 last Harris was seen to take a bowl of thymol crystals into a refrigerator on the first floor. As he did not go home to dinner, Mrs. Harris became anxious about him, and two hours later went to the works. A search was made, and Harris was discovered sitting in the bowl of crystals in the refrigerator, unconscious. The widow stated in evidence that, while in hospital, her husband said: "I was emptying some petroleum ether into a bowl. I felt a buzzing in my ears. I thought 'That's it,' and fell backwards." Other witnesses described the refrigerator, which was about 6 ft. square and 6 ft. high. When the door was shut it would be airtight. The refrigerator was not working at the time. Dr. Vernon Lloyd said that death took place from hypostatic pneumonia, accelerated by the burns. referring to books, witness could not say how long a man could live in an airtight chamber such as the one described, but he would say from twenty-four to forty-eight hours. The jury returned a verdict of "Accidental death," and added a rider recommending the company to put up printed instructions on or near the refrigerator door, warning men never to go inside without leaving the door open.

Poisonings.

The following fatal cases of poisoning have be corded since our last report :

At Birstall, Leeds, a woman named Butterworth mitted suicide by taking a solution of ammonia.

At Park Hall Camp, Oswestry, a German prisone m mitted suicide by taking morphine. The verdict is he inquest was "Suicide."

At Manor Park, London, E., a railway employé a Brooks died from the effects of a solution of am taken in mistake.

Contracts.

The following Government contracts have been not MINISTRY OF MUNITIONS .- Medicines .- Howard & Sons, Ltd.

INDIA OFICE.—Bed Pans.—J. Lockett & Co. Co W. Mays, Ltd. Cresol Disinfectant.—Newton, Cha & Co., Ltd. Gauze.—T. J. Smith & Nephew, Potassium Iodide.—Whiffen & Sons, Ltd. Pota Permanganate.—British Cyanides Co., Ltd. Qu Hydrochloride.—Howards & Sons, Ltd. Scales Weights.—De Grave, Short & Co., Ltd. Sodium Ci —Burgoyne, Burbidges & Co., Ltd. Tablets.—Burr Wellcome & Co.; Parke, Davis & Co. Waterproof Sing.—British Pluviusin Co., Ltd.

CROWN AGENTS FOR THE COLONIES.—Bandages.—I tor of Munitions, Requirements, and Statistics. Candi Price's Patent Candle Co., Ltd. Disinfectant.—
"Sanitas" Co., Ltd. Drugs and Chemicals.—Burge
Burbidges & Co., Ltd. Liuseed Gil and Turpente
Stanley Earle & Co., Ltd. Novarsenobillon.—M:
Baker, Ltd. Soft Soap.—Sadler & Co. (Glasgow),
Tarco.—R. S. Clare & Co., Ltd.

H.M. PRISON COMMISSION.—Drugs and Sundri Baiss Bros. & Co., Ltd. Soup.—Price's Patent Ca

Co., Ltd.

Birmingham.

Our local window-dressers have not quite hit the bi eye lately: the spring-like weather may, perhaps, be partly responsible.

A voluntary committee of business experts has to in hand the work of assisting demobilised officers and

to obtain situations.

Local learned societies, including the Pharmaceut Association, are making the Birmingham Chamber Commerce their meeting-place.

Visitors to the Birmingham section of the British Inc tries Fair, which opens on February 23, will be advised to secure hotel accommodation early.

It is rumoured that a "qualified" dispenser, be offered 50s, a week in a phirmacy, accepted insta-situation as a postal sorter, the weekly salary being 70

Mr. J. W. Wilson (Albright & Wilson, Ltd., Oldbi received a presentation from the company's staff on occasion of his recent marriage. Sir Richard Threb who was present at the ceremony of presentation, g an interesting account of the use of phosphorus in

production of artificial fog. Alderman F. C. Clayton, Ph.C., who was one of distinguished gnests at the Reynolds & Branson celetion at Leeds on January 22 (p. 74), went to Leeds the first time in 1859, at the age of sixteen. After page 1859, and 1859, at the age of sixteen. ing the Major examination and spending a year or with Herrings & Co., Aldersgate Street, London, he cato Birmingham in 1867 to take up an appointment w J. & E. Sturges. Two years later he took a share in business, and in 1886 he became the sole partner. membership of the city council began in 1882 and still continuing. In 1890 he was elected Mayor (the ti of Lord Mayor was instituted later), and in 1912 he made an honorary freeman of the city. He is also Pr Vice-Chancellor of the University. Leeds may fair claim to have contributed to the development of t Alderman's talents-of which, however. Birmingham h secured the benefit.

Liverpool.

Business all round remains brisk: preventives of at remedies for colds are in constant demand.

Appreciation is being expressed concerning the return of the C. & D. Diary to pre-war dimensions.

fello

Mr H. M. Wood has disposed of his business at Audl and has joined the staff of Evans Sons Lescher & Web .td.

Mi Ienry Peet, J.P., again drew the attention of his sello stices, on January 26, to the growing mischief by the consumption of methy ated spirit.

by the consumption of methy ated spirit.

The tirectors of Ayrton, Saunders & Co., Ltd., enterthe works committee on January 19. Tea was served to the Yamen Café, Bold Street, and was followed it to the Royal Court pantomime.

In wing his first impressions of Liverpool to the Rote Club on January 22, Dr. Adami, Vice-Chancellor University, had something to say about our shops, without going so far as to suggest that the ity should establish chairs and courses in windowers, he said that this was a subject which ought to the tropol and on the Cheshire side of the Mersey, the in I rpool and on the Cheshire side of the Mersey, the infect of the Wallasey Committee will be found on the page of this issue (p. 70); it is significant that,

page of this issue (p. 70); it is significant that, simultaneously, the Liverpool Committee was distincted the same aspect of its "duties." A member nvi the chairman (Judge Thomas) to issue a public the chairman (Judge Thomas) to issue a public ion of opinion as to whether it was worth while Committee to continue its work. The chairman, in ry, explained that "We have to work to instructions interpretation of the Act. One of those instructions that we are not to treat as profiteering any transaction which brings the ordinary rate of profit which present which brings the ordinary rate of profit which present the rations of this Tribunal about 90 per cent. of the hich take place in a retail shop. . . . As to whether the ibunal is doing any good, that question is very to the construction.

Manchester.

nists on the Manchester Panel have received a letter the secretary of the Pharmaceutical Committee, and panied by a full and detailed report of the tariff attons for 1920. This report will be useful to those where not present at the meeting on January 12.

Harry Haworth, 416 Stockport Road, Longsight, ecently disposed of his business to Colmans, Ltd., signed from the council of the Manchester Pharma-et al Association. Mr. George H. Haines, Ph.C., 41 ockport Road, has been co-opted a member of the or I in Mr. Haworth's place.

Miscellaneous.

of Food and Drugs Acts .- At Egremont, recently, cer was fined 2l. for selling powdered cassia as red cinnamon. He had charged 2s. for $\frac{1}{2}$ lb.

son-LICENCE APPLICATION.—Mr. F. T. H. Jones, ryman, The Square, Winchester, has applied to real authority for a licence to sell horticultural

E Board of Trade announce that the Scientific ments, Glassware, and Potash Production Branch he Mineral Resources Development Department have ved from 7 Seamore Place, Curzon Street, W. 1, to ew public offices, Great George Street, S.W. 1 (tele-e number, Victoria 9800).

PORT RELAXATIONS .- Pursuant to advice given by the ral Advisory Committee of Crushers and Refiners, the stry of Food has notified the Board of Trade Export hee Department that the Food Controller recommends the following commodities be placed on List "c a, ground-nuts, palm kernels, coconut oil, palmel oil, ground-nut oil, cottonseed cake and meal. restriction on the export of linseed cake and meal. continue for the present.

ERKS' WAGES .- An arbitration has taken place between leading employers of the cocoa and the chocolate confectionery trules on the one side and the National on of Clerks on the other. The award gives what, he opinion of the Arbitration Court, is the lowest

figure which unskilled clerks ought to receive to secure physical efficiency. The rates vary from 25s, at sixteen years of age to 90s, per week at twenty-seven. These rates are to apply to a 39-hour week.

Fires.—The overheating of an electric stove caused an outbreak of fire on January 21 at the research laboratories of Virol, Ltd., 10 Bedford Square, London, W.C. 1. Considerable damage was done on the second and third floors. -As the result of a fire which broke out at the works of L. B. Holliday & Co., chemical manufacturers, Deighton, Huddersfield, on January 25, a shed containing anthracene and silver salts was destroyed.-An outbreak of fire occurred at the shop of J. Savage & Co., Ltd., chemists, 4 Great Horton Road, Bradford, on January 26, damage to the extent of 60l, being done.

INSTITUTE OF CHEMISTRY.—The pass list for the January examinations of the Institute of Chemistry is as follows: Fellowship-In the branch of metallurgical chemistry G. B. Brook; in the branch of the chemistry of food and drugs, fertilisers and feeding-stuffs, soils, and water, F. F. Beach, M.A. (Oxon.), B.Sc. (Lond.). Associate-ship—In the branch of organic chemistry, H. H. Barber, B.Sc. (Lond.), L. P. McHatton, A.R.C.S., and H. C. S. de Whalley; in the branch of the chemistry of food and drugs, fertilisers and feeding-stuffs, soils, and water, John Haycock and Miss E. E. Sparling.

EDUCATION ACT.—The Board of Education on January 14 made an Order fixing April 1 as the appointed day for Sections 13, 18, and 20 of the Education Act, 1918, so far as these Sections are not already in operation, and with the exception of paragraph (iii.) of Subsection (2) of Section 13. August 8, 1921, is fixed as the appointed day for that paragraph. Section 13 relates to the employment of children, street trading, and the licensing of children for the purpose of theatrical employment. Section 18 relates to the medical inspection and treatment of children and young persons attending places of higher education, and Section 20 relates to the education of physically defective and epileptic children.

MINERAL OIL IN DERBYSHIRE.—A report has been issued showing the progress made with the wells which S. Pearson & Son, Ltd., are boring for oil in Derbyshire. Messrs. Pearson are boring on eleven different sites for the Government in Derbyshire, North Staffordshire, and Scotland, and at the present time work is in progress at all the sites, and most of the wells have been carried to considerable depths, the deepest being Renishaw, which has now reached a depth of 3,645 ft. Gil was struck in Derbyshire at the Hardstoft well at 3,077 ft., and has continued to flow steadily. Up to the present 1,900 barrels (one barrel equals 35 gals.) of crude oil have been obtained from this well. Considerable quantities of natural gas have been encountered.

OILS AND FATS.—The following recommendations made by the Central Advisory Committee of Crushers and Refiners at their meeting on January 13 have been accepted by the Ministry of Food: (1) That the agreed maximum prices of all refined deodorised oils shall be at once withdrawn; (2) that the restriction on the use of certain oils for edible purposes only shall be at once withdrawn; (3) that the agreed maximum prices of homemade cakes and meals, with the exception of linseed cake and meal, shall be at once withdrawn. Those variations will take effect immediately, and licences issued will be deemed to be varied accordingly. The Oils and Fats (Restriction) Order, 1918, will in due course be revoked, and in the meantime use for technical purposes is authorised. The Seeds, Oils and Fats Order, 1919, and the Cattle Cakes and Meals Order, 1919, remain in force, and licences are still required for buying, selling, or dealing in seeds, oils, cattle cakes, and meals, with the sole exception of linseed and linseed oil.

CONFERENCE OF THE NATIONAL DENTAL ASSOCIATION. Speaking on January 26 at a conference of the National Dental Association, held in London, Mr. Lawson (President) said that the needs of our population such that there were now something like 30,000 unregistered dentists in this country. At present there were 5,500 names of qualified men on the Dentists Register. Of

those 500 at least were put on under the Act of 1878, men who were then unregistered. Five hundred had retired from various reasons, and it was absurd to pretend that 4,500 qualified registered dentists were sufficient for a population of 49,000,000. He understood that 48 per eent. of the population suffered from pyorrhæa. Neither doctors nor dentists knew what this disease was, but they agreed that it was due to bad teeth. If it were right in 1878 to put 500 unqualified men on the register, was there not all the more justification to-day for including on the register the thousands of men who were, in a large percentage of cases, even more qualified than those registered already? Legislation with a view to recognition was in prospect, and he understood that the members of the Association and those of the Incorporated Dental Society would be placed en bloc on the new Dentists Register. It was agreed to organise the Association as a trade union.

IN THE COURTS.—At Oswestry Police Court, recently, two lads named Lloyd and Brown were each fined 51., with 7s. 6d. costs, for breaking and entering into the shop of Boots, Ltd., Church Street, and stealing therefrom (C. & D., January 24, p. 47).—At the Old Bailey, London, on January 22, Mr. Justice Darling commented on the sale of certain goods mentioned in a case of procuring abortion (C, α, D) , January 24, p. 47). He said that one of the defendants (who was eventually sentenced to five years' penal servitude) was employed as a hair-dresser in the shop in Villiers Street which they were told belonged to Mr. Nathan, who seldom went there himself. It was obvious to his mind that the main business of that shop, out of which Mr. Nathan made profit, was selling regulators and medicines such as had been deposed to. Pills were sold there-most dishonestly sold. Some people called Fabers apparently manufactured them. It was believed that they were capable of procuring miscarriage. The doing of all these things was absolutely illegal and punishable if the people who did them could be caught. These pills were sold at 10s. a box, and if they failed in their purpose were labelled "double strength" and sold at 1l. a box. . . It appeared that people were directed to such acts as these by means of advertisements. In the case of Brown, which was tried before him, he thought in 1899, proceedings were taken against persons in regard to the insertion of advertisements. Therefore the law could deal with such things. He was quite certain that the evil was no less prevalent now than then, and he thought it should be dealt with by the authorities.—Jane Davies, who was remanded at Marylebone Police Court on January 22 on a charge of shoulifting, was found in possession of "a large number of doctors' prescriptions," in addition to money and other things. She was subsequently found to be an inmate of a mental home.

Irish News.

Br wities.

The annual meeting of the Chemists' and Druggists' Society of Ireland has been fixed for February 18.

Mr. P. M. Kavanagh, Ph.C., late manager of Grealy's Medical Hall, and formerly of Hamilton, Long & Co., Ltd., Dublin, has opened a new medical hall at 1 High Street, Galway.

Mr. P. J. Quinn, Ph.C., intends shortly to open a pharmacy at 7 Irish Street, Dunganuon, in the premises lately occupied by the late Mr. Daniel Donnelly, Ph.C., whose business has been transferred, by Mrs. Donnelly to 95 Park Street, Dundalk, where it will be carried on under the style of Donnelly & Co.

The Executive Committee of the Belfast Chamber of Trade has appointed a committee to take up the question of pilfering of goods in transit from England and to furnish information to the members as to the safest, quickest, and cheapest route. The trade is represented on the committee by Messrs, W. J. Hardy (President) and J. C. Culbert (secretary), of the Ulster Retail Drug-trade Association.

Scottish News.

Brevities.

The subscriptions already received towards the Ruthe ford Hill testimonial fund amount to upwards of 550/.

Mr. D. W. Nicolson, chemist and druggist, Portlan Street, Kilmarnock, has purchased new premises in the same thoroughfare.

It is rumoured that our prospective chemists are most Union men and women, and that they will not sell the brains for nothing.

An announcement of a surcharge of $1\frac{1}{2}$ per cent, of proprietaries has been issued to the trade. It is signably seven Edinburgh, four Glasgow, and two Aberder wholesale firms or companies.

A Scottish chemist has lately received at one tim from one family, prescriptions for four patients repr senting four generations. The great-grandmother is nined years of age and the great-grandehild nineteen month This is not a bad advertisement for a pharmacy.

The water power of Scotland has been the subject of investigation by the Nitrogen Products Committee, and has now been suggested that the manufacture of nitroge compounds and the fixation of nitrogen could, by the utilisation of this power, be carried out profitably.

At a recent meeting of a committee of the Glasgor Corporation, a report was under consideration from the medical officer of health regarding the facilities available on Sundays for obtaining medicine from chemists shops. It was decided to await further information. The matter will again be brought forward at an early date.

In the report of the sugar-bect trials issued by the West of Scotland Agricultural College, tests extending over two years are contrasted. The average percentage of sugar was 15.15 in the roots, and the total sugar average 2.15 tons per acre. This was distinctly higher than in 1917, when the average of sugar was 1.46 tons.

"There is a great deal of dissatisfaction among chemists," writes a correspondent, "regarding reciprocity of charges with doctors. Some doctors charge only in nominal fee to chemists for attendance, but many other exact the uttermost farthing, while at the same time expecting great reductions in medicines and sundries from the chemist. Would it not be better for both parties to charge full prices and allow a discount—to be fixed by a joint committee? The day is past for doctors' favouritism regarding prescriptions, as the patient invariably goes where he finds most satisfaction."

#dinburgh.

Mr. S. Graham Crowden, chemist and druggist, representing The British Drug Houses, Ltd., is confined to his house by illness.

"Please give bearer a small quantity of high-power breath sweets" ran an epistle received by an Edinburgh chemist the other day.

Miss Evelyn Blantyre Simpson, the last surviving member of the family of the discoverer of chloroform died at Edinburgh on January 23; aged sixty-four. She was the author of a biography of her father.

A customer told a chemist the other day, "on good authority," that all the shaving-brushes at a neighbouring pharmacy had been taken possession of by the Government. "First I've heard of it," said the other pharmacist over the 'phone, when appealed to for confirmation.

There has been a special meeting of the North British Branch Executive this week, a correspondent states, to meet a sub-committee of the Council and Sir William Glyn-Jones. It is understood that the matter in dispute raises anew the question of the control of the Council over the Executive at [1 the officers in Scotland. A difference of opinion has arisen regarding the courses of training for ex-Service men receiving Government grants.

THIBETAN MUSK.—The transfrontier trade in musk from Thib t to Bengal rose from Rs. 7,598 in 1917-18 to Rs. 70,000 in 1918-19.

The Profiteering Act.

Notes

A COMMITTEE WITHOUT COMPLAINTS.

Owing to the absence of complaints, the Kensington officering Committee, which has been meeting weekly, ld no sitting on either January 19 or January 26.

PROTEST OF COMMITTEES PROPOSED.

It was decided by the Bermondsey Profiteering Comittee, on January 28, to make a request that a reprentative from each of the London Committees should appointed to act as a deputation to the Board of Trade order to point out the ineffective character of the Proteering Act.

APPEAL STATISTICS.

Official figures issued by the London Profiteering Appeal ommittee show that since its constitution there have een eleven sittings, at which thirty-six appeals have been eard. Of these thirteen were dismissed, fourteen were llowed, one was withdrawn, and in eight cases the orders i the local Committees were varied.

PUBLICATION IN FRIVOLOUS CASES.

At a recent sitting of the Hove Profiteering Committee etters were read from the Brighton and Hove Trade Procetion Society and the Brighton and Hove Chamber of lommerce, urging that grave injustice would be done to raders by the publication of their names in the Press in asses which were dismissed as frivolous. It was explained by the clerk that the Press had arranged that tames were given only when the parties were summoned before the Committee; and the Mayor remarked that the patter could be safely left with the Press.

THE PRICE OF SHELLAC.

The enormous increase in the price of shellac is giving ise to much concern in the hat-trade, where considerable uantities are used, and it is suggested that the question of prices should be taken up by the Central Profiteering Committee. Hat-makers believe there is an effort to orner the world's supply; but this is absurd. At the noment there is not sufficient to go round, and the supplies in this country have never been so low. Naturally, speculators in Calcutta and London have taken advantage of this position, and the public pay through the nose, not only for hats, but for many other articles into which shellac enters.

COMMITTEE'S CRITICISM OF THE ACT.

At the conclusion of a case reported on p. 70, the chairman of the Wallasey Profiteering Committee remarked: "It does seem to me that this Committee is very largely an absolute farce. The Government are apparently the biggest sinners in the matter of profiteering. They are not dealing with the people who are profiteering to a very large extent. They appoint these small Committees, which seem to exist only to watch and worry small tradesmen." A member added: "I feel disposed to move that we adjourn sine die in order to give the Government an opportunity of dealing with the Bradford wool-spinners." After further discussion, the chairman summed up the matter by saying, "We are not a bit of good, and the Government is playing with us." The proposition of a member that the Committee should not appoint an inspector "until the Act was made real" was then agreed to.

APPEAL COMMITTEE'S SUGGESTIONS.

A meeting of the London Appeal Committee was held on January 23 for the purpose of considering suggestions arising out of cases heard. Judge Snagge (chairman), who presided, remarked that Appeal Committees had no power to make an order as to costs, nor to veto an order for prosecution made by a local Committee. Sir Richard Robinson (vice-chairman) pointed out the danger which, he said, existed in a wholesale firm supplying retail shops under conditions which made them buy from that firm alone. That firm might charge what it liked, and might set different prices. They must not be carried away by

evidence of a certain percentage, because it all depended on the turnover. Where the turnover was small there must necessarily be a higher percentage than on a large turnover. Some people complained that the Government took a certain percentage of profits, and that had the effect of keeping up prices. Lord Downham suggested that the Committee, together with other Appeal Committees, should collate their opinions and endeavour to come to some conclusion by which decisions might have more uniformity than at present. This suggestion was adopted. In the course of further discussion, a member said there seemed to be an idea prevalent that the Profiteering Act was a "dead letter" and meant to throw dust in the eyes of the public. It was obvious that if the public thought the Act was for the purpose of throwing dust in their eyes, the operation of the Act would be deprived of a good deal of its value.

Complaints.

Bradford.—At the sitting of the Profiteering Committee on January 26, Taylors' Drug Co., Ltd., were the respondents in a complaint of alleged overcharge. The complainant stated that he paid 2s. 6d. for two plasters at one of the respondents' stores, but subsequently found that these were purchasable at other branches of the company at 1s. each. The respondents' representative stated that their assistant had erroneously charged the complainant 6d. too much. A refund of 6d. was ordered.

FULHAM.—At a recent sitting of the Profiteeering Committee a complaint was presented against a tradesman who had charged 1s, $7\frac{1}{2}d$, for a bottle of browning. It was alleged by the complainant that the same article could be obtained elsewhere for 9d. For the respondent, it was stated that the profit, which was 23.07 per cent., was loss than before the war. The case was adjourned.

Gosport.—At the sitting of the Profiteering Committee on January 23 a complainant alleged that Mr. C. Upson, chemist, Stoke Road, had charged him $10\frac{1}{2}d$. for a belladonna plaster, while elsewhere in the town the price of a similar article was 7d. The complainant admitted that he had had to pay 9d. for a plaster at a multiple shop. For the respondent, Mr. V. E. G. Churcher (instructed by the Chemists' Defence Association, Ltd.) defended, called evidence to show that the profit made on the plaster before the war was 50 per cent., whereas now it was only 38 per cent. The members of the Committee were asked to examine different kinds of porous plasters, but it was pointed out by a qualified chemist that it would be unfair to give an opinion from the outside labe's. The complaint was dismissed.

GRIMSBY.—At the sitting of the Profiteering Committee on January 22, Mr. W. Barker, Victor Street, was the respondent in a case in which 50 cascara-sagrada tablets had inadvertently been charged as 100. Mr. E. B. Chapman, solicitor (instructed by the Chemists' Defence Association, Ltd.), who defended, explained that a simple mistake had been made. The case was dismissed on the understanding that 50 such tablets should

be handed to the customer free of charge.

Hammersmith.—At the sitting of the Profiteering Committee on January 22, Boots, Ltd., were the respondents in a case in which 1s. 9d. had been charged for a proprietary ointment of their own, the price of which was formerly 11½d., at a local branch. It was stated for Messrs. Boots that the wholesale price was 1s. 4½d. a bottle (including a 6d. medicine-stamp), and that the profit was 4½ per cent. less than the pre-war profit. Mr. Percy Sparkes, chemist and druggist, representing the respondents, stated that the price was increased on November 14 last year. A member of the Committee pointed cut that by selling the ointment at 1s. 9d. respondents were making a profit of 50 per cent.—not 30 per cent. as had been alleged. This was devied. The same member said he did not think it was right that two profits, wholesale and retail, should be made by the same firm. Mr. Sparkes replied that there were two absolutely distinct companies. The Committee, after consideration, decided that respondents should refund 9½d., and recommended a prosecution. Notice of appeal was given. The chairman

16.5

said that the Committee was of opinion that the ointment in question was old stock.—At the same sitting, another complaint against Boots, Ltd., was mentioned, the article in question being a 2s. 6d. box of headachecachets sold at 228 Uxbridge Road. W. After a discussion as to whether the gross profit made was 29 per cent sion as to whether the gross profit made was 29 per cent. or 40 per cent., it was decided to summon the parties to attend.

LEE, LONDON, S.E.—At a recent sitting, the Profiteering Committee decided to hear on February 5 a case in which Mr. Victor Reed, pharmacist, had charged an additional 50 per cent. on a sale of protected proprietaries, the surcharge being a fee for Sunday service. It is understood that amounts so obtained are handed over

to the funds of a local Wesleyan church,

MANCHESTER .- At the sitting of the Profiteering Committee on January 23, a complainant stated that he had been charged 6!. 6s. for a pair of gold-filled rimmed toric "Kryptok" bifocal spectacles by Bloom, Ltd., 33 Piccadilly. He had since been quoted, at various other shops, prices ranging from 3l. 3s. to 5l. 5s., the latter quotation being given at the Liverpool branch of Bloom, Ltd. managing director of the respondent company, giving evidence, stated that the wholesale price of the lenses was 1l. 12s., and of the frames 4s.; and the secretary produced a balance-sheet showing a net profit of 6.9 per cent. per annum. The Committee ordered a refund of 21. 6s., and directed a prosecution.—At the same sitting, J. Bury, Ltd., chemists, St. Ann's Street, were the respondents in a case in which 1s. 3d. had been quoted for 100 saccharin tablets, this quantity having been purchased at a lower price at a branch of Boots, Ltd. Mr. Needham, solicitor for the respondents, produced evidence to prove that these tablets had been sold at a loss owing to the decrease in the price of saccharin. There was a feeling of soreness among chemists generally, he continued, that these complaints were made because their prices did not tally with those of Messrs. Boots. Messrs. Boots' prices were cut prices, which they were only able to maintain because they carried on an extensive general business in addition to the dispensing. The Committee considered the price quoted a reasonable one, and the case was dismissed .- At the same sitting, a complaint against J. Brooks & Co., Ltd., chemists, Shudehill, who had quoted bay salt at 4d. per Ib., was also dismissed.

Margate.—At the sitting of the Profiteering Committee on January 20, a case was heard in which 8d. had been charged for 2 oz. of compound liquorice-powder, the respondent being Mr. H. S. Picton. Mr. Picton did not appear, but had sent a letter explaining that he could not leave his shop, and enclosing a comparison of prices before and since the war, showing that his present percentage of profit was lower than that obtained prior to August 1914. The Committee, without going further into the case, dismissed it on the ground that no increased profit

was shown.

TEDDINGTON.—At a recent sitting of a Sub-Committee of the Profiteering Committee, a refund of 2d. was ordered on a charge of 7d. made for 1 lb. of pearl barley by a tradesman. The question of prosecution was referred

to the full Committee.

WALLASEY .-- At the sitting of the Profiteering Committee on January 22, a complaint was heard in respect of a charge of 1s. 8d. made by Mr. Mills, chemist, Seabank Road, for a bottle of medicine. After a preliminary discussion on the summons to attend, which, it was stated, was irregular, the clerk said that the complainant had sent a medical certificate that he was unable to attend. A member pointed out that they had brought the defendant there, and if he was prepared to show that the charge was a reasonable one it would be hard lines to ask him to come again. Mr. Mills said he was quite prepared to go into the full details of the case. There had been an irregularity of larity of procedure, as he had had only one instead of three days' notice, so that he had had very little time to prepare his defence. He might say, however, that the prescription in question was for an 8-oz. mixture of thirtytwo doses, and the complainant provided his own bottle. The charge made was 1s. 8d., and he would show that this was totally inadequate, and that a serious undercharge received the notice in writing. It was stated for the

rather than an overcharge had been made. There wer several items in the prescription, as follow:

		Pence
Bicarbonate of sodium, 5vj	•••	0.5
lodide of sodium, 5iiss	***	9.0
Sulphate of sodium, 5j		0.5
Essence of peppermint, 5ij		4.5
Sulphate of sodium, 5j Essence of peppermint, 5ij Compound infusion of gentian, ad 5viij.	•••	2.0

This allowed no adequate remuneration for dispensing of for overhead charges. He submitted that 1s. 8d. was totally inadequate charge. A Member: Have you invoice to prove the correctness of these items? Mr. Mills replie that he had not for the two small items, which did no matter, but in respect to all the other items he could pro duce a wholesale price list dated April 1918, since whe there had been no variation. He might say that th charge was an oversight on the part of his assistant. Th Chairman: You mean that more should have been charged Mr. Mills: Yes. If we had put on 331 per cent. of profi it would have meant another $5\frac{1}{2}d$., in addition to whithere should have been a charge of $7\frac{1}{2}d$, for the dispenser time (a quarter of an hour at 2s, 6d.), and $3\frac{3}{4}d$. for over head charges, making a total of 2s, $9\frac{1}{4}d$. A Member With my knowledge of the cost of the raw materials, think that the charge was extremely modest. The Chair man: I may now say that the clerk has checked the price with another responsible chemist, who finds that th particulars given by Mr. Mills are entirely correct. Ther is nothing for us but to dismiss the case. (Cries o "Agreed!") The Chairman: This case is dismissed Mr. Mills, and I may say we are all very sorry you have been brought here. Mr. Mills thanked the Committee and suggested that before any other chemist was summoned there should be some preliminary investigation, which would prevent anyone being brought there at a busy time of day. Mr. R. G. Govier (President of the Wallase Chemists' Association) said he would like to point on that it was customary to make up prescriptions in two ways-one on the cost price of the ingredients, adding percentage of profit and the cost of the dispenser's time and overhead charges; and the other, usual in that locality by a flat rate. A Member: That throws a flood of light on the subject.

WESTMINSTER.--At a recent sitting of the Profiteering Committee, F. W. Nurthen & Co., chemists, Strand, W.C., were the respondents in a case in which 7s, had been quoted for a bottle of Panopepton. The combeen quoted for a bottle of Fanopoptonial plainant produced a receipt showing that 5s. 6d. had been showed alsowhere for the same size. Mr. Fox-Andrews (Neve, Beck and Kirby), who appeared for the defence (instructed by the Chemists' Defence Association, Ltd.), said that the sales of medicated wines were so small last year, in consequence of the shortage, that an actual loss was shown on the year's trading.

case was dismissed.

Prosecutions.

At Tower Bridge Police Court, London, on January 22 fines amounting, with costs, to 110l. were imposed on Goodrich. Ltd., drysalters, Mile End Road, E., for selling two $\frac{1}{4}$ -lb. tins of mustard at $11\frac{1}{2}d$. each instead of at $9\frac{1}{2}d$.

At Old Street Police Court, on January 28, Max Berg hairdresser, Shoreditch High Street, was summoned by the Shoreditch Profiteering Committee respecting a pot of toilet cream sold for 28, 6d. Mr. E. H. Commbe, who defended, submitted that the cream was not a medicinal preparation. An analytical chemist said he did not re gard the preparation as a drug, and the manufacturer said it was entirely a beauty preparation. The magnissed the summons, and allowed 2!. 2s. costs. The magistrate dis-

At Slough, recently. H. M. Hill, oilman, who was summoned at the instance of the local Profiteering Committee for an overcharge on a stick of Vinolia shavingsoap (C. & D., January 3, p. 67), urged, through his solicitor, that he was entitled to receive a copy of the Committee's decision in writing, which gave him the right of appeal to the county Tribunal; and that it was his intention to appeal, but he could not do so until he

ecution that the notice had been sent by post, and as contended that the evidence of the postage of the ce was sufficient. The Bench were not satisfied as the delivery of the notice, and adjourned the case die, it being understood that defendant would be red with the notice so that he could appeal against decision of the Committee.

the Birmingham, on January 23, Hedges, Ltd., chemists, resummoned for making a charge which yielded an easonable profit. Mr. Minshall, prosecuting, said that complaint against the defendants was that they sold by the force of the force of

At Willesden, recently, a summons (issued by the local officering Committee) was heard against a Harlesden desman who had sold vinegar at 7d. a pint, the costice being 2s. a gallon. The defendant, giving evince, said that before the war he purchased vinegar at a gallon and sold it at 3d. a pint. A representative the manufacturers stated in evidence that the leakage of barrels was not less than two gallons in twelve. Idressing the Court for the defence, Mr. Ricketts conded that there was no case against his client, as he do not made a greater rate of profit than before the r. The Chairman: It might be contended that you making a profit of 4d. a pint to-day and 2d. before e war. Mr. Ricketts: You must base the man's profit his outlay; there is no other fair way of getting at it. Thee, for the prosecution, contended that the clause ovided for the trader making the same fair average offit as before the war. This, he submitted, was not fair average profit. The chairman said that there was rainly a difficulty with regard to this clause of the t, and it was only fair to say that the justices were tunanimous in their decision. They imposed a fine of with 1l. 6s. costs. Leave to appeal was given.

At Marylebone Police Court, London, on January 23, r. Herbert Shepley Watson, chemist and druggist (tradgas T. H. Bateman & Co.), 223 Finchley Road, N.W.

as summoned, at the instance of the Hampstead Pro-

cering Committee, for having charged 1s. 6d. for a oz. bottle of vaseline and 1s. for ½ lb. of "feathery" lauber's salt (C. & D., 1919, p. 1462). Mr. R. Thomas, urister, who appeared for the prosecution, stated that he cost price of vaseline was 1s. 6d. per lb., and that of lauber's salt 4d. and 5d. per lb. Evidence followed to be effect that a 4-oz bottle of vaseline was purchased for l. and ½ lb. of the salt for 2½d. at a branch of Boots. td. Corroborative evidence as to the wholesale prices as given by Dr. F. E. Scrase. He admitted, in cross-xamination, that he had not examined the articles to be if there were any differences between them. Mr. Valter Frampton, barrister, who, with Mr. Walter Lloyd, arrister, appeared for the defeace, pointed out that loots. Ltd., dealt in fancy goods, whereas Mr. Watson as a chemist and druggist pure and simple, who had o employ a skilled staff and was liable to be called up t all hours of the night. The Magistrate: Do you sugest that because of that he is entitled to charge more? Ir. Frampton: Certainly. The Act says that "all the ircumstances have to be taken into consideration." The umover of a business will be a very material consideration. Dr. Skrase, re-examined, stated that Messrs. Boots must also employ skilled chemists. Mr. Frampton, n opening the case for the defence, said that, owing to

a mistake on the part of an apprentice, 1s. 6d. was charged for the vaseline instead of $7\frac{1}{2}d$., but he strongly resisted the suggestion of profiteering. The vaseline cost 1s. 5d. per lb., and the pot 2d., so that the profit made was 40 per cent., which was admitted to be reasonable. The Magistrate: The overcharge here is something like 60 per cent. Mr. Frampton said it was really 78 per cent., but it was a mistake, and Mr. Watson knew nothing about it. As to the salt, he submitted that the profit was not unreasonable. It was sold now and in pre-war days at practically the same profit. The comparison made with Messrs. Boots was obviously misleading, as they did an enormous business in fancy goods at fancy prices, and realised fancy profits. It was easy, therefore, for them to undercut the old-fashioned chemist.
Mr. Watson, giving evidence, said he had never had a
complaint made against him before during the twentytwo years he had been in business. Glauber's salt deteriorated so easily that it was one of the most unsatisfactory articles he stocked. His gross profits were 5 per cent. less in 1918 than in 1916. Asked, in crossexamination, if this was the first mistake his apprentice had made, Mr. Watson replied, "Yes, except that on one occasion he sold a 3s. 6d article for 1s. 6d." (Laughter.) Messrs. Boots need have only one qualified chemist at a shop, but everyone whom he employed was qualified except the apprentice: he would not have cheap labour. Everything Le supplied was of the best quality, irrespective of cost. This quality of sodium sulphate, allowing for overhead and other charges, worked out at a cost price of 1s. 4d. per lb. Mr. J. A. Alban Atkin, chemist and druggist, a member of the Hampstead borough council, also gave evidence for the defence to the effect that the profit on Glauber's salt of this quality was not unreasonable. It had increased in cost to the extent of 20 per cent. during the war, but the retail price had only been raised from 5d. to 6d.—about 15 per cent. In cross-examination, Mr. Atkin was shown a comparative table of profits in The Chemist and Druggist (1919, pp. 1376, 1377), in which table one of the items is "sodii sulphas, No. 2." Mr. Atkin pointed out that this was not the same quality of sodium sulphate as the one before the Court. Other West-End pharmacists were prepared to give evidence for the defence, but they were not called. The magistrate said that after Mr. Atkin's evidence he did not think he could convict the defendant with respect to the salt, although, so far as he knew, chemists' prices were very much in the nature of profiteering, both before and after the war. On the summons for the vaseline, however, he remarked that whether the price charged was a mistake or not it was absurd, and imposed a fine of 25l., with 51. 58. costs.

Business Changes.

Mr. Kermack McBain, dental mechanic, has removed to 62 Kirkstall Road, Leeds.

Mr. Andrew Breese, chemist and druggist, Newtown. Montgomeryshire, has removed his business to larger premises in High Street.

Mr. EMRYS EVANS; chemist and druggist, Victoria Square, Aberdare, has purchased the freehold of his two shops at auction for 3,500%.

Mr. J. E. Clegg, pharmacist, who purchased the business of Mr. W. E. Gould, chemist and druggist. 1 Broad Street, Teddington, last year, is opening a new pharmacy at 116 High Street, which will be carried on as a separate concern under the style and title of Clegg & Mole. Mr. Clegg has also purchased the stock and fittings of Mr. W. T. Fuge, chemist and druggist, White Hart Street, High Wycombe, and is removing them to Teddington.

[&]quot;Common Sense."—The first number of a works magazine under this name, issued by Sangers, 42% Hampstead Road, London, N.W. 1, has been issued this week. A short history of the firm and a roll of honour are two features of the issue.

Legal Reports.

Petroleum Jelly Supply — Mr. Justice Bailhache, in the King's Bench Division on January 20, found for the plaintiffs, with costs, in the action of Sterns, Ltd., Royal London House, Finsbury Square, London, E.C., against J. Hertz & Co., Mincing Lane, wholesale druggists. The plaintiffs claimed damages for breach of contract to supply twenty barrels of petroleum jelly in May 1918, the amount being the difference between the contract price of 6l. 5s. per cwt. and 9l. per cwt., the market price at the time of the alleged breach of contract. The Judge thought that the letters from defendants were a sufficient acknowledgment of the contract, but it was, he said, a very near thing. Defendants were granted a stay of execution for twenty-eight days.

"Grey Powders."—At Exeter Police Court, on January 23, Mr. William Forward Pearce, chemist and druggist, 19 South Street, was summoned for selling grey powders not of the nature and substance demanded. The deputy town clerk, prosecuting, said that the public analyst reported that the sample submitted contained no grey powder, but consisted chiefly of calomel. The term "grey powder" was a recognised term, and appeared in Latin in the British Pharmacopæia. Formal evidence having been given, Mr. M. J. McGahev, who appeared for the defence, instructed by the Chemists' Defence Association, Ltd., elicited from the city inspector, in cross-examination, that he was unaware that Mr. Pearce and his predecessor had been in the habit of supplying a grey powder of their own for children. The powder was grey in colour. Dr. Sturk, medical officer of health for the city, said that calomel was generally used for adults. In reply to Mr. McGahey, he said he was prepared to accept the statement that the first time mercury with chalk was recognised in the British Pharmacopæia as "grey powder" was in 1893. In certain circumstances the powder supplied might be a better prescription. Reexamined: There was one preparation recognised by the profession as "grey powder." His complaint was that if a doctor ordered "grey powder" he expected to get it, and any other prescription might be haveful in it, and any other prescription might be harmful in the particular case. Mr. McGahey said that his client and predecessors had been selling a combination described as a grey powder since 1868. The British Pharmacopæia had no right to come along thirty years later and describe another compound as "grey powder." The Pharma-copeia was not the law of this land, and could not upset the definite and determined trade of a man who had sold a grey powder for thirty years, and whose clients had been in the habit of asking for his grey powder. Mr. McGahey proceeded to raise the technical objection that six powders were purchased as one article, but only a portion—one powder—was analysed. The deputy portion—one powder—was analysed. town clerk quoted a ruling to the effect that the statements of the British Pharmacopæia were not conclusive, but that very strong evidence of considerable commercial usage was needed to upset them. The technical objection was upheld, and the case was dismissed.

"Improved Gregory's Powder."—At Wallasey Police Court, on January 28, Mr. Robert Arthur Evans, chemist and druggist, 129 Brighton Street. Seacombe, was summoned, at the instance of the local health authority, for having sold Gregory's powder adulterated with 45 per cent, of magnesium carbonate, and not of the nature, substance, and quality demanded. Mr. S. Morgan, who appeared for the defence, said he had advised his client to plead guilty, although there was no adulteration in this case. Captain R. C. Knight, assistant-solicitor to the Wallasey Corporation, said the summons was under Section 6 of the Food and Drugs Act. On December 9 three 2d, packets of Gregory's powder were purchased at Mr. Evans's shop, and the certificate of the analyst was that the sample sent him contained 45 per cent. of magnesium carbonate, though the British Pharmaconceia required that Gregory's powder should contain light magnesium oxide. The price of magnesium carbonate was 18, 2d, per lb., while the price of magnesium

oxide was 3s. 6d. per lb. The Defendant: The prices are quite wrong. Mr. Hodgson, the Wallasey public analyst giving evidence, said that the powder contained 45 per cent. of magnesium carbonate, whereas it should have contained magnesium oxide. The comparative prices, according to the price-list produced, were as stated by Captain Mr. Morgan: What date is that list?-The one in force at the time the offence was committed. Can you tell us the price of rhubarb?—No. Do you know there was a greater amount of rhubarb in this powder than there should have been under the Gregor; recipe?—Yes. Will you accept it that there was 45 per cent. of rhubarb as against the 22 per cent. required by the Gregory recipe?—No. What does the analysis show?—About 35 per cent. There was more rhubarb than there should have been. Is that detrimental !- No, I do not think so. Re-examined: The use of magnesium can bonate instead of magnesium oxide renders the powder of very little use ?-It makes it about half the strength it ought to be. Mr. Morgan said that this business had been conducted by his client for the past eighteen months. Mr. Robinson had carried the business on for twenty five or thirty years, during which time he sold a powder called "Gregory's Powder (Improved)." It was on Mr. Robinson's recipe that Mr. Evans prepared his powder. As he was running out of stock of labels, he ordered a new supply of labels, and, contrary to his instructions, the word "Improved" was unfortunately omitted. In order to save wastage, he gave instructions that his assistant was to write the word "Improved" on the labels, but unfortunately in this case he did not do so. The actual cost of preparing the improved Gregory's powder was 2s. per lb.—more than the old Gregory's powder.

The aveat amount of rhubarb used. This cast 10s. per lb. People come from all over Wallasev this improved Gregory's powder, for the reason that they find it more effective. Adulteration was suggested. but adulteration means deterioration, and there had been no deterioration here. After some discussion on the no deterioration here. After some discussion on the relative effects of the two kinds of powder, Mr. Evans stated in evidence that the powder was made up as follows: Rhubarb, 43 per cent.; magnesium carbonate. 45 per cent.; ginger, 12 per cent. The ordinary mixture was: Rhubarb, 22 per cent.; light magnesium oxide. 66 per cent.; ginger, 12 per cent. He used Howards magnesium carbonate, and it cost him 2s. per lb. The magnesium oxide cost him 2s. 8d. per lb. The chairman said that the defendant had pleaded guilty, and it was merely a question of the greatness of the offence: it was merely a question of the greatness of the offence: there had been no attempt to make any profit by the substitution of one article for another, but, in the opinion of the Bench, he had not sold the article demanded. Gregory's powder was a formula known everywhere, and the use of the word "Improved" was calculated to mislead. A nominal fine of 2s. 6d. was imposed, with the analyst's fee of 1l. 16s. as costs.

Strength of Saccharin Tablets.—At Marylebone Police Court, London, on January 28, Militina Fiasetti. a lady trading as the B. and A. Trading Co., 6 St. George's Terrace, Regent's Park, N.W., but said to be in Italy, was summoned at the instance of Boots Pure Drng Co., Ltd., for seven offences against the Merchandise Marks Act in regard to the sale of saccharin tablets. Three of the summonses were for selling saccharin tablets. Three of the summonses were for selling saccharin tablets. Three of the summonses were for selling saccharin tablets. Three of the summonses were for selling saccharin tablets. Three of the summonses were for selling saccharin tablets, ½ grain in 1.330," meaning that the tablets contained ½ grain of saccharin of the strength of 330, when, in fact, they contained less than half that quantity; one was for applying the false description on an invoice; two were for applying the false description in advertisements in "The Pharmaceutical Journal," and one for selling tablets to which the alleged false trade description was applied, "Saccharin tablets, ½ grain in 1.330." Mr. A. M. Bramall, solicitor, prosecuted; Mr. M. Barnett, barrister, defended. Mr. Barnett pleaded guilty to a technical offence. Mr. Bramall having mentioned that the defendant was the maker of saccharin tablets and soap, explained that there were two species of saccharin, the £50 and the 330, which meant that the saccharin in the tablets had 550 and 350 times the swectening power of

ar. The magistrate: They are made from coal, I lerstand? Mr. Bramall: No, from toluol, a product tar. The saccharin if used by itself would be so small, said, that it could hardly be dealt with and would be soluble in tea or coffee, so it was mixed with carbonate sodium and made into tablets. Every fortnight for a mber of months, if not for years, continued the solicitor, e defendant had issued advertisements in "The Pharaceutical Journal" and The CHEMIST AND DRUGGIST lering tablets for sale, \(\frac{1}{4}\) grain 330 strength at 3s. a ousand and \(\frac{1}{2}\) grain of 330 strength at 5s. a thousand, d the complaint was that the defendant had sold as 1-gr. blets which were only $\frac{1}{4}$ gr., and $\frac{1}{4}$ -gr. tablets which ntained less than $\frac{1}{8}$ gr. The actual cost of a thousand blets was $10\frac{1}{4}d$., which, added to the duty of 4s. $8\frac{1}{2}d$., rought the cost up to 5s. $6\frac{3}{4}d$. It was obvious that, if he tablets were genuine and the business honest, the blets could not be sold at the price advertised. These ere the circumstances in which Messrs. Boots made ne purchases which led to the present proceedings. On ecember 14 letters were written to the defendant asking or 1.000 tablets, and when these were analysed they were bund to contain 0.207 gr. of saccharin instead of 0.5 gr. if the $\frac{1}{2}$ gr. it was scarcely, therefore, more than $\frac{1}{5}$ gr. hinking this might be the result of a mistake, a further housand was asked for, which, on analysis, were found o contain 0.1719 gr. instead of $\frac{1}{2}$ gr. A third thousand vas then purchased, and these were found to contain 0.2157 gr. instead of $\frac{1}{2}$ gr. A detective-inspector also made urchases from an agent of the defendant of $\frac{1}{4}$ -gr. tablets, which contained little more than 1 gr. This convinced Messrs. Boots that the offence was not the result of an accident, but was deliberate. A search warrant was accordingly obtained, and the inspector then went to the lefendant's office in Regent's Park Road. He found none here, but, on going to the works off Sharples Hall Street, e discovered the machinery for making the tablets and isked the manager and the chemist to show him some of he degr. tablets. He admitted there were none, and when the inspector offered 50%, if he could produce any, the chemist eventually said they had made 20,000 but had sold them within the last two days. He refused, however, to give the customer's name and address. Mr. Bramall said he understood the defence would be that this was the result of bad mixing; but the effect of these widespread advertisements in the trade papers was very serious, because honest chemists were led to buy the tablets, owing to the low prices, and thereby exposed themselves to prosecutions in all parts of the country for selling things under a false trade description. It was also a fraud on the public, because they were getting only half the sweetening power that they paid for; and it was hard on honest traders who were manufacturing these tablets in competition with the defendant. In reply to the magistrate, Mr. Bramall said he was unable to give the quantities made by the defendant; but, according to her, she carried on business not only in London, but in New York, Paris, Brussels, and Melbourne. The magistrate said he was afraid he could not deal with the case in the absence of the defendant, as she was liable on conviction to imprisonment as well as a fine. He thought it would be better to issue a warrant for her arrest. He did not say he should send her to prison, but that was one of the punishments. P.C. Scott, who served the summonses. said he was told when he called at the offices that "Mr." Fiashetti was on the first floor, and on going there he saw Achille Rosi, who said he was the gentleman wanted. Achille Rosi was called to deny that he was the defendant, or that he had represented himself as such. He was manager to Fiashetti, he said, who had been in Italy for seven months. The summonses were adjourned until February 12, and the magistrate directed that similar summonses should be taken out against Rosi and against Adolph Barlohetti, the chemist.

Among the contributors to a 10.000! fund which is being raised at Swansea for war widows and orphans and a children's home are the Pontardulais Chemical Co., Ltd., and Wright & Son, chemist, Walters Road. The employes of Vivian & Sons, Ltd., chemical manufacturers, have raised 51!.

The Government Quinine Report.

In the course of a further interview on the Government Quinine Report with Mr. Abrahamson, managing director of the British Quinine Corporat.on, he expressed the opinion that the Government has been altogether in the wrong from the moment when it attempted to tamper with the trade in quinine. In the first place, there is no one in Government circles sufficiently acquainted with the economics of the drug to be able to give any sort of trustworthy judgment on so intricate a subject; and, in the second place, it was obviously unfair on the part of the Government, knowing nothing as it does about quinine, save what it had gleaned from the trade, to hold an investigation into a toreign monopoly, and thus criticise by implication, the Dutch, whose fair treatment of this country during the war, so far as the supply of quinine was concerned, is now proverbial. Among other things, Mr. Abrahamson said that he was not prepared to discuss the transaction especially referred to in the report to any detailed extent, but he said that a number of implications contained therein that the Government had been misled in regard to the price was positively untrue. He looked upon the report as malicious and useless, as well as being a waste of public money, but perhaps the Government, he added, could afford to spend a few thousands of pounds out of the 45,000%, profit which they had made out of the deal. Meanwhile he would like to know what the Ministry of Munitions had to say about the report, especially as he was frankly puzzled in regard to certain breaches of faith on the part of officials of that Department, which could be substantiated by reference to the quotations in the report involving confidential trade documents, from which quotations had no right to be made. As for the report itself, Mr. Abrahamson said that it contained so many inaccuracies that it was difficult to know where to begin to criticise and where to end. It is hardly necessary, he added, to deal with the first paragraph, which is purely elementary, while the second paragraph also contains information which is common knowledge. The ignorance of the Committee on quinine matters, however, is proved throughout the report in their continual confusion of the Kina Burean with the Dutch manufacturers. The ignorance which is shown in Paragraph 2 by reference to the "combination of planters and manufacturers entrusting their interests to the hands of an organisation with headquarters at Amsterdam" is stupendous, it being common knowledge that the Kina Bureau is only a committee of planters and manufacturers appointed to carry out the agreement existing between these people. With regard to Paragraph 5 of the report, it would be interesting to see the calculations on which the Committee based 38 guilders per kilo, as being equivalent to 1s. 8d. per oz. The report overlooks the very essential fact that, though the Government requisitioned two million ounces of quinine from the trade in this country, in many cases a loss was experienced by the trade in consequence of such action. Finally, while it may be true to say in Paragraph 9 of the report that the Dutch manufacturers expressed the opinion that the British controlled price of 2. 11d. per cz. was too high, it is obvious that all reference to the price which the British Government was paying for the quinine was carefully omitted from the context. The controlled price of 2s. 11d. per oz. may have been in Dutch opinion certainly too high, but only in ratio to the price which the British Government was paying for the quinine. In any case, it is sheer nonsense to talk of the price "less 5 per cent.," and that the Government were purchasing from the Dutch "c.i.f. London."

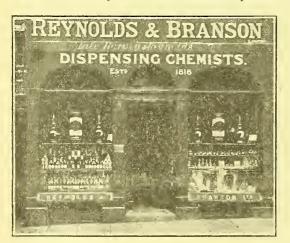
MILAN TRADE FAIR.—Applications for space at the Milan Trade Fair must reach the British-Italian Corporation, Ltd., 12 Nicholas Lane, London, E.C. 4, not later than January 31. The space available for British exhibitors will be allotted strictly in order of receipt of the application.

A Centenary Celebration.

The famous house of Reynolds & Branson, Ltd., Leeds, the centenary of which has just been celebrated, in time-honoured fashion, by a conversazione and dinner, dates back to 1816. In that year Mr. William West, a member of the Society of Friends born at Wandsworth in 1792, took a business at 13 Briggate, Leeds. Twenty-five years later he gave up pharmacy in order to devote himself to analytical chemistry, and eventually became a Fellow of the Royal Society. He was also a founder of the Leeds Philosophical Society, to which he contributed numerous papers on scientific and general subjects, and lecturer in chemistry (for fourteen years) to the Leeds School of Medicine. In 1841 he became one of the original members of the newly founded Royal Society of Chemistry. A long list of his papers on chemical engineering and general subjects has been preserved by Reynolds & Branson, Ltd. Mr. Thomas Harvey took over the business on Mr. West's retirement, and Mr. Richard Reynolds, Ph.C., joined him as a partner in 1854. Developments continued, and Messrs. F. W. Branson, F.I.C.. Ph.C. and R. F. Reynolds, Ph.C., became partners in 1883 and 1890 respectively. Mr. R. F. Reynolds has another claim to remembrance by reason of his brilliant cartoons in The Chemist AND Druggist, extending from 1833 to 1997. These changes, and the further history of Reynolds's' after conversion into a limited company, are summarised in the following table:

William West, F.R.S	1816
Thomas Harvey	1841
Harvey & Reynolds (Thomas Harvey, Richard	
Reynolds)	1854
Reynolds & Branson (Richard Reynolds,	
ř. W. Branson)	1883
Reynolds & Branson (Richard Reynolds,	
F. W. Branson, R. F. Reynolds)	1890
Reynolds & Branson (Smeeton's absorbed)	1893
Reynolds & Branson, Ltd. (directors: Richard	
Reynolds, died 1900; F. W. Branson; R. F.	
Reynolds, died 1907)	1898
Reynolds & Branson, Ltd. (directors: F. W.	
Branson, F. H. Branson, F. Islip, J. H.	
Gough)	1908

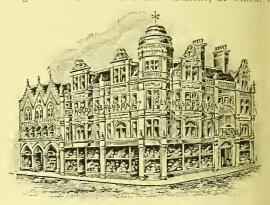
The pharmacy at 13 Briggate (shown in the first of the two illustrations) has existed practically without alteration for a long period prior to 1868, with laboratories and pharmaceutical works adjoining in Commercial Court and Wormald's Yard. In the year mentioned a site was purchased



at 14 Commercial Street, and a handsome pharmacy with optical department, showrooms, stores for chemical and physical apparatus, chemicals, x-ray apparatus and glass-blowing departments was constructed on it (shown in the second illustration). Near at hand, at 25 Trinity Street, is

a well-equipped scientific-instrument factory. During recent years extensions have also been made at the rear of 12, 13, and 14 Briggate. This area extends to a depth of 120 yards, and comprises manufacturing laboratories pill and tablet factories, surgical-instrument making department with showrooms, aërated-water factory, wholesale dispatch warehouse, sterilising and first-aid departments, etc. Steam power is available in the various works, but electricity is chiefly used.

A representative gathering of about two hundred members of the directorate and staff, with guests, met at the Queen's Hotel on January 22. The first part of the proceedings took the form of a conversazione, at which, in



addition to several interesting pictures, recent scientific inventions gave a comprehensive idea of modern progress in research. These were shown by Mr. F. W. Branson. F.I.C., Ph.C., chairman of the company; Mr. F. H. Branson, A.I.C., chemist and druggist, managing director; Mr. J. H. Gough, Ph.C., director and secretary; Mr. W. Pickard; Dr. W. E. Haigh, a former member of the staff; and Messrs. Keith Brown, F. J. Read, J. Stoney, E. M. Washington, and A. Watson. The lantern slides included pictures of the Balkans in war-time, taken during Dr. Haigh's service in those regions. Mr. taken during Dr. Haigh's service in those regions. Mr. F. W. Branson presided at the dinner, and the chief guests were Alderman F. C. Clayton, J.P., Ph.C., Birmingham, an apprentice with the firm fifty years ago; Mr. Leonard West, M.I.M.E. (grandson of the founder of the business); Mr. Kenneth Reynolds, B.A., whose father and grandfather were in the firm; and Dr. G. Claridge Druce, M.A., Ph.C., who was an apprentice at the same time as Mr. F. W. Branson. Alderman Clayton, who proposed "The Firm and the Directors," was in reminiscent mood. much to the enjoyment of the company. The Alderman spoke of the great difference between the firm in his own days and the present great undertaking, and told of the characteristics and work of the men who had successively been partners-particularly the late Mr. Richard Reynolds, his own master, who was elected a member of the Council of the Pharmaceutical Society in 1863, and was one of the founders of the British Pharmaceutical Conference. Speaking of what he had seen during a visit to the premises of the company that afternoon, Mr. Clayton said he had witnessed developments which were never dreamed of in his day. Such a thing as standardising drugs was not known; and as to the 4,000 compounds now dealt with, half-a-dozen were considered sufficient in those earlier days. Mr. Branson was deserving of all honour for his work and research into scientific glassware during the war. Mr. Clayton then handed to Mr. Branson the old record book which he had had to keep in the laboratory in his own day. Mr. Branson, in responding, expressed his great appreciation of the gift of a most interesting and valuable book, the pages of which showed that some of the problems of to-day were under consideration at that time. Mr. Branson paid tribute to the great part in the success of the company which is played by a loyal and industrious staff. Reynolds & Branson, Ltd., contributed about sixty people to war service, partly in the Forces and partly in work, just as dangerous and as necessary, to keep the fighting forces

equipped to carry on their duty. Early in 1915, when the question of the purity of water for the Army became urgent, the company supplied to the War Office three tons of clarifying-powder (in 1,344,000 tins) and 20,000,000 tablets of sodium bisulphate. In the latter case, the limits for arsenic and lead had to be fixed very low, and some of the staff, no doubt, retained vivid recollections of the pulverising process. Dies, accurate to the ten-thousandth of an inch, were made, and several hospitals were completely equipped with drugs and surgical appliances. Synthetic chemicals, aërated waters, and glassware were also made in large quantities; and in the case of glassware it is interesting to note that the researches of Messrs. F. W. and F. H. Branson have resulted in a formula now under consideration as a standard for glass tubing. At this stage of the proceedings Mr. H. F. Kilner, on behalf of the staff, presented a silver dish to Mr. Branson to mark the occasion and their esteem. Mr. Branson, in expressing thanks, said he knew that the intrinsic value of the gift was considerable, but the real value was in the loyal comradeship which lay behind it. The toast of "The Guests" was proposed by the chairman and responded to briefly by Alderman Clayton. Mr. Leonard West, also responding, spoke of many interesting episodes in the work of his grandfather, the founder of the firm. Something in the nature of profiteering, apparently, was not unknown nature of pronteering, apparently, was not unknown in those days, for a certain earl had complained that he had been charged twelve guineas for a mercurial pneumatic trough which he could get elsewhere for eight guineas. (Laughter.) Mr. West had been engaged in various philanthropic movements, and was a member of a conference in Paris in 1849, the object of member of a conference in raris in 1049, the object of which was to endeavour to arrange for universal peace. Mr. Kenneth Reynolds followed with a brief reply. Dr. G. Claridge Druce, who also responded, expressed his sense of pleasure at being present at such an interesting gathering, which marked a long period of success brought about by scientific knowledge and close attention to detail given by the founders of the firm, and continued in a not less marked degree under the directorship of Mr. F. W. Branson, his fellow-apprentice in Northampton. Even in those early days (1868) Mr. Branson exhibited signs of his interest in science, which was shown by the foundation there of a pharmaceutical association, with a proper curriculum of classes, one of which was conducted by Mr. Branson. In that small society were men who, almost without exception, had attained eminence in one or another branch of pharmacy. Among these members was present that evening Mr. Hartridge, a relative of Mr. Branson's. Mr. Branson did not limit his interests to pharmacy. He had paid considerable attention to geology, had filled the chair of a local society and had contributed papers to its proceedings. In accepting the invitation to be present at a centenary gathering there was a sad feeling that such an invitation was not likely to be repeated to one on a similar occasion. On going over the establishment that morning, however, he saw such evidence of scientific research and originality of methods, and such an intelligent staff, that a cheering and consoling thought came to him-whether Mr. F. H. Branson and some of his fellow-workers might not be able to discover some serum or another which, properly administered, might give everyone present additional longevity and enable them to resist time and take part in another and enable them to resist time and take part in another celebration of the same kind a hundred years hence. (Laughter.) He asked all those present to drink with enthusiasm a toast to the chairman, Mr. F. W. Branson, coupling with it the names of Mrs. Branson, Miss Branson, and Mr. F. H. Branson. This was carried with loud acclamation and the singing of "For he's a jolly good fellow," and was suitably acknowledged. In the course of the evening scrolls of honour were presented to twenty-girlt members of the staff who had returned from the war eight members of the staff who had returned from the war (in which five members lost their lives). A capital pro-gramme of music was carried out by Misses H. M. Wilson and M. Rayner, Messrs. F. J. Read, D. E. Cressey, and Eric Read, and a string quartet; and music, in the form of the National Anthem and "Auld Lang Syne," closed a memorable evening.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ARNOLD GRIMSHAW, LTD. (P.C.).—Capital, 4,000!. Cbjects: To take over the business of a wholesale and retail druggist and drysalter carried on by A. Grimshaw at 84 Hunslet Hall Road, Leeds. R.O.: 84 Hunslet Hall Road, Leeds.

Turner Drug and Galenical Co., Ltd. (P.C.).—Capital, 2,000%. Objects: To carry on the business of manufacturing and analytical chemists, druggists, perfumers, etc. Solicitor: B. Wilson, 20 Basinghall Street, London, E.C.

Hanson. Deakin & Co., Ltd. (P.C.).—Capital, 2,500/. Objects: To carry on the business of wholesale druggists, chemists, etc., and to acquire the business carried on by J. Hanson at 54 Capel Street, Dublin. The directors are: J. A. Deakin, Dublin, and H. E. Deakin, Mount Auburn, Richmond Road, Drumcondra.

CAMPBELL, FALCONEP & Co., LTD. (P.C.)—Capital, 6,000%. Objects: To carry on the business of manufacturing chemists, wholesale druggists, distillers of essences, manufacturers of food, etc., carried on at 102 Walmgate and The Malthouses, Winterscales, York, and at Sherburnin-Elmet, Yorks, as "Campbell, Falconer & Co." R.O.: 102 Walmgate, York.

BEESWAX Co., LTD. (P.C.).—Capital, 2001. Objects: To carry on the business of wax-refiners, bleachers, extractors, manufacturers, importers, exporters, dealers in lubricating oils, petroleum and all petroleum products, etc. The first directors are: H. F. Farnan, T. F. Killick, and M. S. Salamon. Secretary: H. Birnage. R.O.: 10 and 11 Lime Street, London, E.C.

MAYMORN CHEMICAL Co., Ltd. (P C.).—Capital, 1,000l. Objects: To take over the business carried on by E. B. Higgins at 22 Lace Street, Liverpool, to carry on the business of soap manufacturers, pharmaceutical, manufacturing, and general chemists and druggists, etc. The first directors are: J. Hatfield, 30 St. George's Court. Gloucester Road, S.W. 7; E. B. Higgins, 12 Elleray Park Road, Wallasey, Cheshire. R.O.: 22 Lace Street, Liverpool.

Felton & Crepin, Ltd.—At a meeting on December 20 it was resolved, and on January 5 confirmed, that the company be wound up. H. W. Humphries, 23 King Street, E.C., C.A., was appointed liquidator, with full power to sell and dispose of the company's undertaking and assets on such terms and to such persons. companies, or firms as he shall think fit.

British Cyanides Co., Ltd.—An extraordinary general meeting was held on January 21 at the Cannon Street Hotel, London, E.C., Mr. C. F. Rowsell (the chairman of the company) presiding. The object of the meeting was to pass the necessary resolution to increase the capital to 450,000/. by the creation of 100,000 new shares of 1/2, each. The new issue was due to the rapid increase in the company's business, and the necessity for increasing the plant to enable them to cope with it. The managing director, Mr. Kenneth M. Chance, said with the new money the company would be able to double or treble the output of many of the chemicals they are now making. He could have wished that the demand for their products had not come so suddenly and so heavily as it had done, as the strain all round, following on the strain of the war, had been very severe on individual members of the staff. The two problems which now confronted the company are to provide for all time ample and cheap supplies of the two essential raw materials which are the mainstay of the business—namely, cyanogen and potash. "We are." said Mr. Chance, "constantly at work on these problems; the outlook for both is extremely promising, and if and when they are secured your company cannot fail to take a proud position among the greatest chemical concerns in this country."

Personalities.

THE NEW SECRETARY of the Sunderland Pharmacists' Association is Mr. H. M. Dunn, 298 High Street West.

Mr. J. Birkett, J.P.. Ph.C., Morecambe, has been appointed a member of the Liceusing Committee for the borough.

Mr. Victor J. Woolls, chemist and druggist, Margate, has been appointed Organist of the Union Lodge of Free-

Mr. W. Woolley, J.P., manufacturing chemist, Blackburn, sailed, on January 24, on a six months' business tour in China and Japan.

Mr. F. W. Dennis, Ph.C., Eastgate, Louth, has been elected chairman of the joint committee of the North-East Midland Pricing Bureau.

Mr. C. A. Critchley, Ph.C., King William Street, Blackburn, has been elected a member of the committee of the Blackburn Chamber of Trade.

Sir Leonard Bromfield Rowland, chemist and druggist, Wrexham, was, on January 24, admitted a member of the Imperial Society of Knights Bachelor.

Mr. H. Saunders, who represents Edward Cook & Co., Ltd., is laid up with congestion of the lungs, but he hopes to resume his journeys in a week or two.

Mr. R. L. Morland, druggist, Worthington, Minnesota, U.S.A., was elected and installed Worshipful Master of Fraternity Lodge No. 101 A. F. and A. M. of Minnesota on December 1, 1919.

MR. J. S. PRIOR, Ph.C., was head of the poll at a recent election in St. Mary's Ward, Stamford. His opponent was a Labour candidate, whose supporters' disappointment at the result took the form of personal remarks about Mr. Prior's trade.

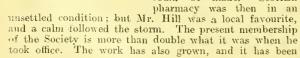
Mr. T. J. Barton, chemist and druggist, Street, Somersetshire, has had the gratification of learning that his son, Sergeant H. R. Barton, R.A.M.C., who died on active service in Sofia in 1917, has been posthumously awarded the Serbian Gold Medal.

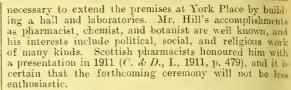
SIR FREDERIC NATHAN, K.B.E., has been appointed Power Alcohol Investigation Officer under the Fuel Research Board of the Department of Scientific and Industrial Research. Sir Frederic, who before the war was Superintendent of the Royal Gunpowder Factory at Waltham Abbey.

MR. P. F. Rowsell, chairman of the Chemists' Defence Association, Ltd., and Vice-President of the Pharmaceutical Society of Great Britain, presided at a session of the Southern Counties' Semi-National Eisteddfod held recently at Exeter, and addressed a few words of encouragement to the promoters of the festival.

Mr. J. RUTHERFORD HILL, Ph.C., Resident Secretary of the North British Branch of the Pharmaceutical Society

of Great Britain, to whom a testimonial is to be presented (C. & D., January 24, p. 58), was appointed to his present position early in 1886. Mr. Hill had previously been a teacher at the Edinburgh Royal Dispensary, and both there and at the Edinburgh Chemists' Apprentices' and Assistants' Association, of which at that time he was President, had acquired an insight into the politics of pharmacy; so that on the removal of the late Mr. Peter MacEwan to London it was felt that no better choice could be made. Scottish MR. J. R. HILL.





Mr. H. S. Watson, President of the Western (London) Pharmacists' Association, has received many cougratulations on the result of the Glauber's salt Profiteering Art case reported on p. 70. Mr. Watson's fight for so obvious a principle as that embodied in Section 1 (2) of the Act has been unusually strenuous.

Mr. R. McMyn, chemist and druggist, Blackburn, who has been selected as President of the North-East Lancashire Chemists' Association, was apprenticed to Mr. R. Lord Gifford, J.P., Ph.C., twenty-five years ago, and qualified in 1902. Sixteen years ago he opened premises on his own account in New Bank Road. Mr. McMyn has been prominent in the work of the Association, and for some time was a member of the Blackburn Pharmaceutical Committee. His chief hobby is bowls.

Grants to Ex-Service Men.

The following is the circular issued to deputy controllers, chief inspectors, district directors, and secretaries of district selective committees by the Ministry of Labour Appointment Department regarding the maintenance and training grants scheme and training in pharmaceutical chemistry, which was referred to in the C. & D., January 10, p. 47:

I. Owing to the large number of candidates entering the profession of pharmaceutical chemist and applying for grants, it has become necessary to restrict the number of grants awarded in order to prevent the profession from being overcrowded. From the date of this circular therefore, grants will not be made to candidates who were not studying pharmacy previous to joining the Forces, save in very exceptional circumstances.

2. The following candidates can still be considered for grants:

(a) Candidates who had taken up the study of pharmacy prior to joining H.M. Forces.
(b) Candidates who have taken up training since the

(b) Candidates who have taken up training since the Armistice (November 11, 1918), and whose application has already been passed by an interviewing board but has not yet passed the Grants Committee.

Candidates whose applications are lodged but have not yet been put before the intervening board should be reinterviewed and dissuaded from entering the profession. If it is possible to dissuade them, their applications should be put forward on their merits with a note stating any exemptional circumstances.

any exceptional circumstances.

3. These applicants will be dealt with in rotation, but in view of the fact that the Pharmaceutical Society will be unable for some time to allocate the colleges for 1920 applicants to whom grants are being awarded, the file in cach case will be returned to the appropriate directorate for retention, pending allocation to colleges for 1920.

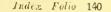
4. It should be noted that at a future date the file will be called for by the Grants Committee, when the candidate will be allocated to a school by the Society. The necessary entries made by F.D. 10, and the normal procedure thereafter followed, as laid down in Rules and Regulations, para. 30 (b) xiii.

5. The cases already sanctioned by the Grants Committee and awaiting allocation will be similarly dealt with in accordance with paras 3 and 4 above.

with, in accordance with paras. 3 and 4 above.

A careful inspection of all cases so returned is necessary, as it has come to light that in several recommendations for training "at a school to be approved by the Pharmaceutical Society," the candidate is, in fact, already in training.

Any such case that may come to light should be immediately re-submitted to Secretary, Grants Committee, with the necessary facts, for completion.



Birth.

THOMSON.—At Commercial Buildings, 3 Seagate, indee, on January 19, the wife of John M. Thomson, emist and druggist, of twins.

Marriages.

GILBERT-THOMAS,-At Ebenezer Congregational Church, vansea, on January 28, John Salmon Gilbert, chemist and uggist, to Daisy Thomas, 26 The Promenade.

hurch, on January 22, by the Rev. J. F. Johnson, Dr. Villie Sieger, son of Mr. W. Sieger, of Amsterdam, to oris, eldest daughter of Mr. R. W. Greeff, Elm Bank, idmore, Bromley, and Thames House, Queen Street lace, London, E.C. SIEGER-DE GREEFF,-At the Chislehurst

Silver Wedding.

Toplis - Bradley. - At Brampton Congregational hurch, Chesterfield, on January 16, 1895, by the Rev. Bradley, eldest daughter of the late Councillor James adley, chemical manufacturer, Chesterfield. Present radley, chemical manufacturer, Chesterfield. Presedences: The Hawthorns, Old Brampton, Chesterfield.

Deaths.

BARTLEY.—At 9 Bold Street, Warrington, on January 12, Mr. George Aloysius Bartley, Ph.C., aged eighty-nine. Beaghan.—At 91 Avenue Parade, Accrington, on anuary 19, Mr. Thomas Beaghan, chemist and druggist, ged eighty-five. Mr. Beaghan was in business in Blackourn Road for upwards of fifty years, and was much espected in the town and district.

BENTLEY.—At 65 Boothferry Road, Goole, on Janury 16, Mr. John Schofield Bentley, chemist and druggist,

ged eighty-five.

Charles.—At Burry Port, recently, Mr. David Charles, h.C., aged fifty-four. Mr. Charles, who had been in ousiness at Burry Port for several years, was a member of he urban district council. He leaves a son and a

-In a Dublin nursing home, on January 21, Mr. Patrick Thomas Joseph William Cosgrave, Ph.C., esident dispenser at the South City Dispensary, Peter treet. Mr. Cosgrave, who was a brother of Mr. W. T. Cosgrave, M.P., passed the Licence examination in 1905. A vote of sympathy has been sent to the family from the Dublin Board of Guardians.

Dixon.—At East Grinstead, on January 22, Mr. Walter Robert Dixon, chemist and druggist, eldest son of the late Mr. W. H. Dixon, chemist and druggist (W. H. Dixon & ous, Ltd., chemists). Mr. Dixon, who qualified in 1905, ontracted a fatal illness while on active service during

FRANCIS.—At "Melrose," Rhyl, on January 20, the widow of the late Mr. John Francis, Ph.C., Wrexham, aged eighty-one, Mrs. Francis leaves four sons, all of whom are pharmacists.

FLETCHER.—At Seven Gables, The Driffold, Sutton Coldfield, on January 20, Catherine, widow of the late Mr. Francis Fletcher (a director of Wyleys, Ltd., Coventry), aged seventy-seven.

HILDYARD.—On January 14, the wife of Mr. W. Hildyard, chemist and druggist, Brandon, Suffolk, aged fifty-

SHAW.—At Market Drayton, recently, Mr. Ralph Hopwood Shaw, chemist and druggist, aged eighty-five. Mr. Shaw was with Morris & Co., Cheshire Street, Market Drayton, from 1860 to 1865. He then married and opened in business on his own account at Seacombe. In 1900, after retirement from business, he returned to Market Drayton.

Simcock.—At 29 Duncan Terrace, Islington, London, N. 1, on January 21, Mr. James Sprent Simcock, chemist and druggist, 311 Goswell Road, E.C. 1, agcd eighty-eight. Mr. Simcock received his early training in the drug-trade in Manchester, where, after some experience, he opened a business. A few years later he removed to South Africa, on medical advice, and remained for a year or so in the district now famous for its diamonds. Returned to England about fifty years ago, he established a druggists' sundries business at 311 Goswell Road, E.C., and subsequently carried on retail pharmacies at Copenhagen Street and Penton Street, N. The Goswe'l Road shop was also converted, eventually, to the uses of Mr. Simcock's retail connection. Methodical, scrupulously honourable, and generous, Mr. Simcock was widely respected in North London. He was a typical pharmacist of the old school, eminently sound in judgment, and resolute in his avoidauce of self-advertisement. His chief recreation was an annual holiday, generally taken in some interesting part of the Continent. On the formation of the North London Pharmaceutical Association in 1912, he became a member, and continued to attend for some time; but the effects of a fall sustained more recently made themserves feit, and he latterly confined himself to a daily visit to his shop. Mr. Simcock, whose wife predeceased him a few weeks ago, is survived by two daughters.

Thomson.—At Commercial Buildings, 3 Seagate, Dundee, on January 23, Nan Miller, wife of Mr. John M. Thomson, chemist and druggist.

Wallis.—At 106 Birchanger Road, London, S.E. 25, on January 7, Mr. George Wallis, chemist and druggist. Mr. Wallis, who passed the Modified examination in 1869, was with Davy, Yates & Routledge, and subsequently 1869, was with Davy, Yares & Routledge, and subsequency, with The British Drug Houses, Ltd., for about fifty years. For the greater part of that time he represented those houses as town traveller. He was a widely-read man of modest disposition, very popular with the many chemists with whom he came into contact, and, indeed, wherever he was known. For the past twelve months he had been living in retirement.

Coming Events.

Monday, February 2

MONGAY, February 2

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 r.m. (Cantor Lecture). Capt. H. Hamshaw Thomas, M.B.E., on "Aircraft Photography in War and Peace." (Lecture 3.) Society of Chemical Industry, Chemical Society's Rooms, Burlington, House, Piccadilly, London, W., at 8 r.m. Messrs. H. M. Wells and J. E. Southcombe, M.Se., on "The Theory and Practice of Lubrication: The Germ Process."

Wednesday, February 4.

National Association of Chemists' Assistants (Leeds branch), Wray's Café, Vicar Lanc, Leeds, at 7 p.M. Whist-Trive and musical evening. Tickets (2s. 6d. cach) not later Tan Feb-ruary 2 from Mr. Hollingworth, Ph.C., 7-9 Bond Street, Leeds.

Thursday, February 5.

Chemical Society, Burlington House, London, W. An informal meeting will follow the scientific meeting.

SOUTHEND-ON-SEA ASSOCIATION OF PHARMACISTS.—A dinner will be held in Boots Café, The Broadway, High Street, at 7.30 p.m. on February 18. Tickets from Mr. Sydney Body, 167 The Broadway. CARMARHENSHIRE PHARMACISTS' ASSOCIATION.—Members of Associations in the South Wales and Monmouthshire Federation area are invited to an open meeting, at 3 p.m. on February 10, at the Thomas Arms Hotel, Llanelly. Mr. Hugo Wolff and others will speak

Thomas Arms Hotel, Learchy. Ser. Hago with and others will speak.

North London Pharmaeutical Association.—The annual dinner will be held on February 19 at the Florence Restaurant, Rupert Street, Regent Street, London, W. Tickets (10s. 6d. cach) from Mr. Herbert Skinner, The Dispensary, Great Northern Hospital. Early application is desirable.

Chemical Society.—Subject to sufficient support being given, the Council contemplates arranging for a soirée at the Natural History Museum on March 25. Fellows are requested to state, not later than February 9, the number of tickets (to be issued at a charge not exceeding 5s. each) required.

British Chemical Trades Association.—A dinner will be held at the Criterion Restaurant on February 12, at 7 p.m. Members of the chemical trade invited. The guests of the evening are Licut. Colonel Sir Hamar Greenwood (Parliamentary Secretary to the Department of Overseas Trade) and Sir William Clark (Comptroller-General of the Department). Application for tickets (10s. 6d. each) should be made before January 21 to the Secretary. 33 Fenchurch Etrect, London, E.C.3.

Trade Notes.

SQUIRE'S COMPANION.—The price of this work has been advanced to 21s. It is published by J. & A. Churchill. BOTTLE DRYER.—The Sutcliffe Ventilating & Drying Co.,

Ltd., Cathedral Gates, Manchester, give an illustration of a convenient bottle dryer designed for the use of manufacturing chemists.

Southall's Towels.—The revised prices of Southall's towels and other sanitary specialities, which came into force on January 1, are given in detail in Southall Bros. & Barclay, Ltd.'s, advertisement.

"ODDS ON" OILS .- The price of this proprietary liniment, made by the "Odds On" Specific Co., Ltd., 36 and 37 Cock Lane, London, E.C. 1, is now protected under the scheme of the Proprietary Articles Trade Association.

ELECTROLYTIC CHEMICALS.—The selling agents in this country for the electrolytically produced chemicals of the Société D'Electro-Chemie et D'Electro Metallurgie, Paris, are Chas. Mangold & Co., 9 Mincing Lane, London, E.C.

PHILIP'S RETAIL PRICE-LIST.—The January issue of this list bears the new address of Mr. Charles Philip, 132
Abbeyfield Road, Sheffield. It is interesting to note that the circulation of the list has doubled within the past few

WATSON'S VERMIN KILLER, made by the London Drug Co., Station Road and Coldharbour Lane, Brixton, London. S.W. 9, does not contain a scheduled poison. A bonus offer to chemists is made in an advertisement in this issue.

"Rubberware Sales."—Suggestions for displays of rubber goods are made in the Winter issue of "Rubberware Sales." Copies can be had on application to the Reliance Rubber Co., Ltd., 212-213 Upper Thames Street, London, E.C. 4.

VIOLIV ICE.—The Violiv Manufacturing Co., 26 Haymarket Terrace, Edinburgh, inform us that the sales of violiv ice are increasing rapidly. A special offer is made in the company's advertisement to chemists who wish to take up this line.

Dr. Blosser's Remedy is to be advertised largely during 1920, and the proprietors, Dr. Blosser, Ltd., 33-34 Temple Chambers, Temple Avenue, London, E.C. 4, invite chemists to stock the remedy to meet the demand that is to be created in this way.

LEONA TOILET PREPARATIONS.—The Jackson Co., 172 St. John Street, London, E.C. 1, supply details in their announcement of the Leona series of toilet preparations, the prices of which are protected under the Proprietary Articles Trade Associations' scheme.

SANAGEN NERVE FOOD is being advertised regularly in the leading London daily papers. The proprietors—the Sanagen Co., Ltd., 102 Sheepcote Lane, Battersea, London, S.W. 11-suggest that window and counter displays would help to bring customers to chemists who stock Sanagen.

NOSTROLINE.—Harold E. Matthews & Co., manufacturing chemists, Clifton, Bristol, have inaugurated a system of supplying Nostroline direct to chemists. This step has been taken in consequence of the surcharge by wholesale houses now made on the supply of proprietary

WE HAVE RECEIVED from the Clayton Aniline Co., Manchester and London, a wall calendar (19 in. by 13½ in.), the central feature of which is a colour-print suggesting in an artistic manner the company's products. The picture represents an Eastern bazaar, with fabrics of brilliant hues cleverly arranged so as to tempt customers.

"HILGER INSTRUMENTS IN INDUSTRY" is the title of a pamphlet sent out by Adam Hilger, Ltd., 75a Camdeu Road, London, N.W. 1. The list of industries mentioned ranges from animal products to wood distillation, the instrument and its application to the particular industry being given. Descriptive booklets are also issued of each instrument.

BRITISH INDUSTRIES FAIR.—Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thanes Street,

London, E.C., are to show a complete range of go of their own manufacture at the Crystal Palace, Bri Industries Fair, which is to be held from February to March 5. The Fair will be held simultaneously Birmingham, Glasgow, and London.

DIARY ALTERATIONS.—Since the issue of The Chem and Druggist Diary, 1920, we have discovered so omissions in the Buyers' Guide section. Will our read please note, therefore, that Stevenson & Howell, Lt should appear under the heading "Synthetic Perfume P "Chamomiles," C. W. Field, Ltd., should appear und "Saponin," and F. Chiesman & Co. under headings t majority of which will be found in their advertisements. on page 46. In the Trade Directory the page for Squ & Sons. Ltd., given as 45, should be 457. The pages of William Martindale should be numbered 110 and 1 (not 211). On page 363 a block has been used whi gives the old title of Chas. L. Huisking, Inc. M. Huisking's business has been incorporated for some tin

ADVERTISING AIDS.—The Chemists' Design Service 12 Humberstone Gate, Leicester, have sent for our i spection a set of proofs from the blocks which the cor pany supplies to chemists for use in local advertisement The illustrations are adapted for general use or in speci departments of a chemist's business. For example, noted blocks which could be used with advertisemen for dispensing, aerated waters, summer beverages, wine photographic and optical goods, perfumery, veterinal medicines, proprietary medicines, and sickroom and toile The company also write advertisements which are snitable for the blocks, and we have turned over the leaves of a large portfolio of examples, many of which we can highly praise. Chemists who are contemplatin extending their docal advertisements should make in quiries as to the aids which the Chemists' Design Service

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first hand suppliers of the undermentioned articles will be appreciated. 153/29. Bradbury's cucalyptus 165,40. "Varico" leg ban 153/29. Braden:
oil
166/2. "Hydro" brand enemas
166/21. "Gonglyt"
166/21. "Ginoform"
166/60. "Carriage" brand dages oil of 165/41. Oil of per (? American) Esmolin "Plexo" cream "Hygein" di 166/60. "Current by the state of the marvelia flat (or marwelia) plant (or marwelia) plant (or marwelia) the formal by the state of the marvelia flat (or marwelia) plant (or marwelia) pl 168 '43. 168 44. disinfec tant 168/64. Thepenier's Bulgarian milk tablets 169/5. Waddieors spirit (for harness) 166/72. Wainwright's cure for sea-sickness

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, Tel Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

Epson enlts, 160/73 Pelt in sheets, 158/46 Feluna pills, 151/41 Folding boxes, 152/65 Gluuber sults, 160/57 Grinding mills, 143/36 Gutta-percha tissue, 160/7 Hayes' usthma cure, 159/79 "Idylle" perfune, 157/71 Iron sulphate, 158/3 James' blister, 148/1 Kruschen Salts, 151/41 Epsom calts, 160/73

CHEMIST AND DREGGIST, 42 Cannon Street, London, E.C. 4:

"Arabine" marking-ink, 153/64
Bell's tongue syrnp, 158/8

"Bighat" fly paper, 160/46
Butler's sarsaparilla, 147/65
Cantassinu, 151/61
Capping skins, 150/38
Capsuling machinery, 156/31
Digitaline (Minlhe), 149/44
Dioxogen, 151/41
Drug mill, 158/40
"Drummer" dyes, 150/17
Dumas (Bernard) filter papers, 153/25
Ensom salts, 160/73

"Rex" electric hair-bi "Mentholol," 148 12 Mercolised wax, 151 41 Moffatt's oils, 159/17 Nuclein, 149/44 Oiled sifk, 160/7 "Orilux" flash Imps, 152/5 Papier Plassard, 157/65 Peppermint oil, 156/38 Phenoquin, 148/12 Pill-making machinery, 159/40 Piver's perfume 156/4 "Rex" electric hair-brush, 144/27 "Rough-on-Rats," 155/61 Rough-on-Rats," 155/61 Saponin (Dutch inquiry), 157'18
"Sheringham" light, 157'18
"Sunflower" pomade, 151'45 "Sunflower" pounde, 151-45
Tablet-making machinery, 155-12
"Telmo," 127/48
"Tennant" brend bleaching powder, 148/52
Waxed paper, 132/4
Weighing and wrapping-machinery, 115/61

bservations and Reflections.

By Xrayser II.

C. & D. Diary

in its old form will be welcomed with amation by all chemists; for two years this unique lication has appeared shorn of its advertisements, a inevitable but grievous in spite of a gallant attempt mitigate it by an admirable rearrangement of the uyers' Guide." This feature is still retained, and he the Trade Directory which precedes it greatly ilitates reference to the advertisements. A great invement in the Trade Directory of this year is the lition to the names of the firms represented in it of pages on which their advertisements appear, instead placing these in a separate index. The Diary compares ourably with any, of its precursors in bulk. It runs 540 pages, whereas that of 1917 (the last to appear the advertisements) had only 448; the literary ter given us this year is slightly in excess of that of t year, which had no advertisements. Some of the ormation given then is now out of date; its place is plied by new features, of which the tables of the ights and descriptions of bulk packages of drugs, etc., erve special mention. The list of Local Associations nitted since 1917) reappears, with the addition of a t of trade unions occupying considerably more than a umm—a notable sign of the times. The number of armaceutical formulas is about four times as long as at of last year; is this another such sign?

he Advertisements

are simply staggering. I have not found ne to count them, but I have counted the number of lvertisers, and find it exceeds those of 1917 by more an 160; the total number (if I have not miscounted) is 4), and many of them have more than one advertisement. fancy this must be a record, and it is of good omen. To have won the war, and look like winning more pacific iumphs: "Peace hath her victories no less renowned an war." Our congratulations, as we'll as our thanks, re due for this seasonable gift.

he Board of Trade's Reply

to the Feltham Profiteering Comittee is about as unilluminating a document as ever sued from a Government Department. The Committee eems to have asked whether to sell at the current market rice after buying below it is profiteering. The reply is 1) that it is not; (2) that it is not in all cases; (3) that is not necessarily so. The Committee is therefore just bout as wise as it was before. However, the general rift of the reply, so far as it can be apprehended hrough the cloud of verbiage, is that when in doubt the Lommittee should not take the trick. This is so much o the good, at any rate.

Messrs. Leath & Ross,

in commenting on your "Retrospect" of January 17, do not give any figures by which to judge of the position of homeopathy to-day as compared with that it occupied in 1870. It would be interesting to have them. In the article from which your "Retrospect" was taken it was stated that there were then in practice "upwards of 270 fully-qualified men who have openly accepted in part or wholly the truth of Hahnemann's doctrines." These men were very unequally distributed about the country. Thus Liverpool, with a population of 445.938, and Manchester, with a population of 529,245, were each in possession of ten homeopathic practitioners, while Malvern had no fewer than seven among a population of only 6.000. It is to be hoped that not all of the seven were actually in practice, but allowing for this possibility the contrast is startling, and, I think, significant. You said it seemed to show that the new system flourished most among the well-to-do and bettereducated classes, but neither a good income nor education (as it is commonly understood) is any safeguard against fads and fancies. Your article, though sympathetic, was quite non-committal as to the merits of homeopathy as a system, but dealt exclusively with its popular success

and the "almost daily advances" it was making in public favour. Have these advances been maintained commensurately with the claims made for the system, and in proportion to the increase of population and the general advancement of science?

Wholesale Houses

are, not unnaturally, advancing prices to meet the increased cost of transit caused by the raising of railway rates. I have received notices of an advance of $1\frac{1}{2}$ per cent. on all proprietary goods from two different firms, with an intimation that this has received the endorsement of the Council of the Proprietary Articles Trade Association. If drugs and sundries are similarly advanced (and there seems no reason why they should not be), here is another reduction of our profit that will affect not the retail trade only, but dispensing as well. Panel chemists are already committed to a tariff accepted before this advance in cost, but they should bear it in mind against the reconsideration of terms in June.

Coal

raffords us a capital illustration of the recent progress in chemical science. Dr. Lessing, in the papers read before the Chemical Society of which you gave an abstract last week, tells us not only that coal is not a homogeneous article (which was known before), but what its constituents are—namely, clarain, durain, fusain, and vitrain—what they are composed of, and the probable sources of their component parts. The point to be noted is that none of the names given to these substances, except fusain, which appears as the name of a charcoal crayon from the wood of the spindle tree, occurs in the Oxford English Dictionary, though, to be sure, the section in which vitrain should occur has not yet been published. It would be interesting to know on what principle these names are given to the coal-constituents. Dr. Lessing says fusain is also known as mineral charcoal, but the charcoal of the spindle tree is surely a vegetable product.

M. Radet's Life of Pasteur,

now translated into English by Mrs. R. L. Devonshire, naturally devotes a good deal of space to the controversy between Pasteur and Bastian concerning spontaneous generation, and the series of experiments by which Pasteur proved its impossibility. Itwould, perhaps, be more philosophical to say that he proved its impossibility under any conditions known to or conceivable by us, and Huxley (at least in 1870) only accepted his conclusion with certain limitations; he held then that life might possibly have been spontaneously generated in the early stages of the earth's history. He may have changed his mind later, as did Tyndall, who held at one time that matter (or was it protoplasm?) contained the promise and potency of all life, but afterwards convinced himself by an experiment described in the C. & D. for March, 1876, that Pasteur was right. A good deal of theological rancour was imported into the discussion, as the theory of spontaneous generation was held to dispose of the fact of a separate creation of organised life and to lend force to the then unorthodox theory of evolution, which, however, Herbert Spencer showed to be inconsistent with it. It is somewhat curious that Redi, who started the modern discussion of the subject in the seventeenth century by proving that meat does not spontaneously breed maggots, also incurred ecclesiastical censure for controverting Holy Scripture. The long story of the discussions and experiments carried on intermittently from his time to Pasteur's is one of the most interesting chapters in the history of science.

From Japan to Peru.—It is reported that the Hoshi Pharmaceutical Company (Tokio) has recently purchased large tracts of ground in Peru, on which it is proposed to cultivate, on a large scale, cinchona and other medicinal plants.

On Christmas Eve a special number of "The Daily Mirror" was issued, setting forth in a popular style various facts bearing on an appeal made by St. Bartholomew's Hospital, London. Two pictures of the dispensary and one of the chemistry laboratory appear on the back page. It is stated that 300,000 prescriptions a year are dispensed by the staff.

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Getchers' Concentrated diquors

are standardised and therefore always to be relied upon, and official preparations made from them, fulfi all the requirements of the British Pharmacopæia.

Editorial Articles.

Nitrogen Products Committee.

THE final report of the Nitrogen Products Committee which was issued last week, is a folio Blue-book of 357 pages. The Committee was appointed in June 1916 by the Ministry of Munitions to report on the various methods of fixing atmospheric nitrogen, to ascertain the relative advantages and costs, and to examine the question of the raw materials and power required in the manufacture, as well as to advise as to starting operations on an industrial scale. Several Sub-Committees were formed, and as the result of experimental work definite conclusions were arrived at for augmenting the production of nitrogen compounds in the United Kingdom in case the war demand made this necessary. The necessity for nitrogenous fertilisers to meet the demands of agriculture was not lost sight of. The report now issued (Cmd. 482. 4s.), obtainable at the Stationery Office, sums up the deliberations of the Committee and the several Sub-Committees. It is a mine of information on the nitrogen industry, as it gives statistics and cost of the several systems of preparing nitrogen-containing materials. In arriving at the recommendations to which we shall refer the Committee state that they were influenced by the following considerations:

(1) The sources of supply of combined nitregen in the United Kingdom must be increased considerably if the existing and prospective home demands are to be met and

the pre-war scale of exportation is to be maintained.

(2) The existing sources of supply of combined introgen in the United Kingdom proved wholly inadequate for meaning the companion of the co

ing the war demands.

(3) The risks and costs of importation during the war are

very serious.

(4) Combined ritrogen (as cyanamide or ammonium sulphate) can be obtained by synthetic processes at a cost, at the factory, which is less than half the market price of combined nitrogen from other sources, pre-war conditions

combined nitrogen from other sources, pre-war conditions being taken as the basis in each ease.

(5) Concentrated nitrie acid can be made by synthetic processes for about half the pre-war cost by the standard retort precess riâ Chile nitrate.

(6) The argmonia oxidation process provides a means whereby during a state of war the importation of Chile nitrate would be rendered unnecessary.

(7) The world's demand for combined nitrogen appears to double every ten years. The increased production during the war has not been more than the normal rate of increase during reace.

during reace.

(8) The actual consumption of combined nitrogen for agriculture in the United Kingdom has practically doubled during the war, and there is certain to be a further increase.

(9) No very large increase in the output of by-product ammonia in Great Britain in the immediate future seems probable.

As a minimum provision for safeguarding the future and for meeting a portion of the growing home demand for various nitrogen products, the Committee recommends the establishment in Great Britain of the calcium cyanamide process upon a scale sufficient to give an output of about 60,000 tons of cyanamide per annum. The approximate capital outlay (pre-war estimate) is put at 1.680,000/. at a water-power site, or 800,000l. at a steam-power station. The chemical sections for either site would cost about 445,000%, of the above totals. It is recommended also that the synthetic ammonia (Haber) process be established

n a manufacturing scale of 10,000 tons of ammonia per nnum, and that an ammonia oxidation plant be comleted in conjunction with the synthetic ammonia factory u a scale sufficient to produce about 10,000 tons of strong itric acid (95 per cent.) per annum. Further recomnendations concern the utilisation of the by-products of oke-ovens and gasworks, and the testing by means of xperimental plants of the Häusser (or explosion) process, by which nitric acid and power can be obtained simulaneously, the barium cyanide process, low-temperature arbonisation of coal, and sulphate of ammonia recovery. The operation of all liquid air nitrogen plants is recommended to be continued on account of the oxygen and argon, for which there is a growing home demand. Nitrogen fixation and allied processes will, so far as the United Kingdom is concerned, constitute a new "key" industry, and the Committee express the opinion that the initiation and development of the industry will require the active support of the Government. There are five appendices to the report, and a good index is provided.

Scarcity of American Botanical Drugs.

In our issue of November 1, 1919 (p. 74) we published an article from a New York correspondent, pointing out that owing to the labour conditions in the United States, extreme prices would rule for all American botanicals when the consuming season made its effect felt on the market. A comparison of the prices ruling here in October and those asked to-day show how fully this prediction was justified. Some of these drugs are almost unobtainable, and the prices quoted in the primary markets are purely nominal-slippery elm bark, e.g., which is collected mainly in the Middle West, and bayberry bark, which comes almost entirely from the Southern States, are practically non-existent, very little indeed being collected during the last autumn season. The former can be collected in the early spring and practically throughout the summer and early autumn months, but it will be June, at the earliest, before we can expect the situation to be relieved as far as this market is concerned. The price of slippery elm bark in October was 18. 6d. per 1b., but to-day's value is 3s. 6d. to 4s. per lb. for the ordinary grinding quality. Bayberry bark is not collected until the early autumn, and the outlook for this is even less favourable, and the rise has been more pronounced, the price being 1s. 3d. per lb. four months ago, while to-day it is difficult to secure at 4s. 6d. per lb. Lobelia herb is another drug which was selling around 1s. per lb. in October, and is now commanding almost any price—7s. 6d. per lb., as we noted in last week's issue, having been paid. This herb is collected in July-August, and the outlook is not bright. Senega-root has been steadily rising right through last summer, and there was an exceptionally good demand during the "off-season," with the result that in the autumn an abnormally high price had been reached (viz., 8s. 6d. to 9s. per lb.), which, under ordinary circumstances, would have stimulated the collection from August onwards, but even this inducement failed to produce the necessary labour, and prices have still further advanced, until we have a price to-day of 11s. 6d. per lb. on the spot. Even this is below the New York parity of \$2.50 when the extraordinarily low rate of exchange at present ruling is taken into consideration: at to-day's rate the equivalent is about 13s. 9d. per lb. One point of interest in connection with the collection of this root is that the

districts around St. Paul, which used to be one of the main centres, seem now cleared, and Winnipeg has now become the headquarters for the drug. This has shortened the collecting season, as the winter sets in earlier the more north-west one goes. Mandrake-root, which was considered high in October at 61. per cwt., is now double the price, with very little available, but possibly this will turn attention to the Indian Podophyllum emodi, which is official, and yields a high percentage of resin. Among other advances one may mention sassafras bark of root from 20. 8d. per lb. in October to 3s. 8d. per lb. to-day; wahoo bark of root (euonymus), which has riscn from 3x. per 1b. to 5s. in the same period; and black haw bark of root, from 2s. 6d. to 4s. per lb. The question of the collection of crude drugs in the United States is intimately bound up with that of labour, and if any further confirmation is needed of the situation it will be found in the following paragraph from the New York "Drug and Chemich! Markets" of December 10, 1919:

It was about a year ago that the "after the war surplus of labour" began to receive the most serious consideration at the hands of business men and economists. According to all that was logical, with a cessation of hostilities and the release of some four million men from the Army, a rush of returning workers to all ficks of industry was expected not only to provido sufficient labour to bring the war-time shortage to an end, but to furnish a considerable excess. Steel workers, coal miners, and the like may have gone back to their old jobs, but it did not take crude drug gatherers long to discover that more money was to be made elsewhere. With the men earning more than thoy had ever earned before, there was little inducement or need for the women and children to help the family eoffers by gathering drugs as they had done in the past. Stocks of botanicals in the cities are being cleaned out with little additional to be had in the country. Prices are keeping pace with stock depletion, and are climbing rapidly. Winter is here, and there will be no opportunity to renew supplies for three or four months at least, and then only when labour is paid prices by the collectors which will compete with the abnormally high wages which are now being paid unskilled workmen all over the country. Just as the matter stands now it looks like a choice of two rather rough courses for domestic crude drug consumers. It is either a question of doing without the goods at all, as will be necessary in the cases of several scareo items, or paying prices which are very likely to become almost prohibitive.

Similar testimony is given in the annual report of the Bureau of Plant Industry, U.S. Department of Agriculture for 1919, which states that as the result of the shortage of labour much work in the cultivation of drugs has been abandoned by the smaller growers, who have left the field to those who have been reasonably successful, either through favourable location or better equipment for marketing the products.

An Insurance Dispensing Scheme.

MR. F. A. HOCKING, B.Sc., chief pharmacist at the London Hospital, puts forth, in the "Hospital Gazette," a dispensary scheme for the supply of medicines under the National Insurance Acts. The paper contains some rather sarcastic remarks regarding the pharmacist who, "very often little more than a licensed vendor of certain poisons, frequently assumes towards his hospital confrere the attitude of the superior person," The scheme of Insurance dispensing for London is as follows:

It is suggested that the county be divided into districts, each district to be composed of a group of hospitals; at the head of each district should be a hospital with the largest and best equipped dispensary; this would in almost every instance be one of the large general hospitals.

the purpose of each group would be to provide medicines to all insured persons resident within the area assigned to

the group.

The head institution would be responsible—
(a) For the purchase of all medical and surgical supplies nceded for the group.

(b) For the manufacture of all galenicals which the

smaller members of the group do not prepare.

(c) For the oversight of all arrangements in its area.

(d) For the provision of at least one dispensary to be available during the whole of each twenty-four hours for

(e) For seeing that the dispensary of each institution the group is adapted for insurance dispensing, preferably by setting up within the building, or near at hand, an entirely separate room for the work; these separate dispensaries to be exact reproductions of each other as regards pensaries to be exact reproductions of each other as regards internal arrangement and fittings, in order to facilitate interchange of staff during helidays and sickness. If such dispensaries be insufficient numerically for the district, additional ones might be set up in suitable positions in or near public libraries and municipal offices, or other public buildings easily accessible to the insured person.

In place of a Pharmaceutical Committee largely, and in the nature of things inevitably, having before their minds the interests of the retail pharmacists, there should be a permanent Advisory Committee set up composed of the chief pharmacists of the lead institutions of the districts whose duties would be to co-ordinate the work of the several districts, and to advise on all matters relative to Insurance

districts, and to advise on all matters relative to Insurance

One of the essential duties of this Committee would be to co-operate with the medical profession in the compilation of a full and complete Insurance Pharmacopæia or Formuof a tull and complete Insurance Pharmacopæia or Formulary. It is true there is a publication called a Pharmacopæia or Formulary, but it is altogether inadequate. Almost its only good point is that its contents are derived from the pharmacopæias of the voluntary hospitals. A pharmacopæia worthy of the name should contain formulæ for the usual mixtures, ointments, pills, tablets, etc., together with a list of all other preparations commonly used in medical practice.

Among the advantages of such a compilation are:

Among the advantages of such a compilation are:

(i.) Luxury pre-cribing would be abolished: the word "luxury" is used in respect of costly non-essentials, instead of the word "expensive," because prescribing must at

times be costly.

(ii.) The prescriber's time would not be wasted in writing prescriptions at full length; he would use the name of each

preparation only.

(iii.) The methods for producing some official preparations could be modified in the direction of economy, without any detriment to the patient's interest.

(iv.) Time taken in dispensing prescriptions would be cnormously reduced. Instead of Mr. Allen's three prescriptions, or Mr. Rutherford Hill's six prescriptions, it would be within the capacity of an average pharmacist to deal with twenty per hour. For every preparation mentioned in the Insurance Pharmacopæia would be immediately at hand, the entral or other hospital of the district. Further, the usual means employed in hospital pharmaey for economising time would, of course, contribute to this end.

Mr. Hocking is a bit shaky when he comes to estimate the cost of the scheme, but he reckons there would be a saving of from 12,000l. to 16,000l. on the present cost. It would require 150 pharmacists to do the dispensing, and to pay them would require about 38,000l. a year, "or 8,000l. less than was paid as dispensing-fees in 1916." He adds, "There is also the rent of each dispensary; this, however, would probably prove to be relatively small. for reasons which cannot now be given for want of Another matter which is avoided is how in a huge area like London it will be possible to supply efficient pharmaceutical service from only 150 dispensaries. We fancy the public would like a voice in such a scheme, and that they would not trouble very much about the glorification of institutional pharmacists.

The Question of a Rota.

PANEL chemists, who are auxiously waiting to know what will be required of them in the shape of extra service in connection with the scheme under Article 9 of the new Medical Benefit Regulations, which provides that one or more places of business of persons supplying drugs and appliances in each district shall at all reasonable times

be open to insured persons, will be relieved to learn that the Ministry of Health is taking an extremely reasonable view of what should be understood by times." Apparently the main objects of the proposed scheme are to ensure an adequate pharmaceutical service in each area, and to make each panel chemist properly conversant with his obligations under the general scheme of National Health Insurance dispensing service. Where the existing arrangements are adequate, as in most cases they probably are, to secure a reasonable service, it is simply proposed to incorporate those arrangements in a formal scheme, chemists being required to specify the days and hours on and at which their places of business will be open to insured persons. The hours specified will be regarded as the ordinary hours during which prescriptions are dispensed for insured persons, and there will be no obligation on chemists to dispense prescriptions out of those hours unless they are endorsed "Urgent" doctor. Moreover, it is proposed that the dispensing of a prescription endorsed "Urgent" shall carry a double dispensing fee. Where the general closing is 8 P.M. or later it will not be necessary to arrange a rota unless there be very exceptional industrial conditions, and it seems unlikely that the ordinary hours need ever be later, even with a rota, than 8.45 p.m. Provision must be made for "ordinary hours" of service on Sundays, early-closing days, and public holidays, but here again the existing arrangements will probably be found adequate, and the only fresh obligation imposed on chemists in this respect will be that they must specify their ordinary hours on those days. It is not required that every panel chemist should open on Sundays and holidays, provided there are sufficient who do so open to give a reasonably adequate service. Special provision is to be made for rural areas and for districts in which there is only one chemist's shop. so that no particular case of hardship need occur. scheme, as adopted for any district, may be amended from time to time, should experience show that this is required. The Ministry asks that it should be clearly understood that, provided a reasonable service is secured there is no desire to impose any restrictions on the normal closing hour of chemists' shops. Further, in view of the general tendency towards the earlier closing of shops, it is suggested by the Ministry for the careful consideration of local Committees that, given a proper measure of cooperation, there would appear to be no reason why the scheme to be formulated under Article 9 should not, in fact, operate to the relief of chemists rather than impose on them any new liability.

The Morphine Traffic.

In a letter to "The Scotsman," Mr. D. B. Dott, Ph.C. F.I.C., has a tilt at the Rev. G. S. Muir, hon secretary of the Edinburgh Anti-Opium Committee, whom he states "is never weary in calling attention to what he and some others regard as the iniquitous trade in morphine and opium." Mr. Dott vigorously defends the phine and opium." Mr. Dott vigorously defends the use of morphine, especially in a country like China with a population of 450,000,000, regarding it "as one of the most valuable and indispensable of all medicines, and to withhold it in cases where it is required would be an action quite the reverse of philanthropic." The Rev. an action quite the reverse of philanthropic. G. S. Muir has suggested that the British makers of morphine should have their output controlled and reduced by 75 per cent., to which suggestion Mr. Dott retorts that "if the British export trade were entirely stopped it would simply throw the trade into the hands of American or other makers. Our clever Allies in Japan would promptly turn our philanthropic policy to their own advantage in creating a new industry for them selves." That is already the case to-day, as Japan is growing her own opium, is a large buyer of Smyrna opium in that market, and has several morphine factories.

MERCURY IN THE UNITED STATES.—The Louisiana Texas Quicksilver Company has acquired 8,960 acres of mercuriferous ground in the district of Terlingua, where a furnace capable of dealing with 100 tons of cinnabar will be

The Destruction of Rats.

It is important that chemists should continue to take the leading part in supplying the public with the destructive agents required in the campaign against rats, especially in view of the powers conferred upon Public Authorities by the Rats and Mice (Destruction) Act which came into force on January 1. We have therefore asked a pharmaceutical chemist with special knowledge to write us a series of articles dealing with the various aspects of the subject.

III.

Poisoning is officially regarded as the most generally satisfactory method of exterminating rats. Ferreting may be more "sporting," but ferreting and trapping do not destroy on a sufficiently large scale. The selection of a poison and the preparation of the bait demand, therefore, thorough consideration.

Arsenic, Strychnine, Phosphorus.

Of the virulent poisons, such as arsenic and strychnine, not much need be said. Their effectiveness (if the bait is eaten) is undoubted. A we'l-known vermin-killer is said to contain strychnine mixed with a barium salt, while at least two largely advertised proprietary rat poisons rely on arsenic for their efficacy; and most practising rat-catchers, who profess to have sccret recipes of unparalleled efficiency, also use arsenical preparations. Arsenic and strychnine, however, according to the Ministry of Agriculture, should probably never be laid in the open in rural districts, and never in an exposed position in urban districts. Not only is there a danger of domestic animals tasting the bait—they may also sample the bodies of poisoned rodents. If arsenic is used, the necessity for mixing it with soot or indigo must be remembered. And, whatever poison be used, the importance of masking any bitter taste and making the bait sufficiently attractive to rats must be borne in mind.

Phosphorus is the chief ingredient of many proprietary rat-poisons. It has the advantage of relative cheapness, and of not being a scheduled poison (except in Ireland, where it is in Part II. of the Schedule). Again, as with arsenic or strychnine, special care is needed in handling and laying so powerful a substance. It can easily be made into an attractive bait (more easily, for example, than strychnine or arsenic), but in warm weather it is liable to lose its potency comparatively quickly. Phosphorus paste has been known to cause fires; and it is more than doubtful whether there is any foundation for the statement that rats killed by phosphorus dry and

mummify without odour.

Several quite excellent recipes for rat-poisons containing arsenic, strychnine, and phosphorus were given in The Chemist and Druggist of September 27, 1919 (p. 84). It hardly seems worth while to reprint them now, in view of the fact that neither the Ministry of Agriculture nor any local authorities have recommended, or are at all likely to recommend, the public to use dangerous rat-poisons. An increased demand will probably arise, however, as a result of the new Act for some of the well-known and undoubtedly effective rat-poisons of established reputation in proportion to the vigour with which these articles are advertised by the proprietors.

The fashionable rat-poisons at present are those containing barium carbonate, or squill, or both; and it is for such that a fresh demand is being especially created

by those who administer the new Act.

BARIUM CARBONATE.

This has been selected as the most suitable rat-destroying agent by the United States Department of Agriculture and by the Indian Government. It has many advantages. It occurs in nature as the mineral witherite. It is cheap, and when conveyed in a proper medium is both tasteless and odourless. Its toxic properties are not lost on keeping. It has a corrosive action on the mucous membrane of the rat's stomach, and thus induces the rats to leave their holes in search of drink and to die in the open. It is said to be comparatively harmless to

dogs, cats, fowls, and the like. Two grains of it suffice to kill a rat, whereas cats and chickens are said to withstand ten to fifteen grains, and dogs considerably more. Barium salts are not, however, absolutely safe, and Attfield remarks: "In cases of poisoning by soluble barium salts, obvious antidotes would be solution of alum or of any sulphates such as those of magnesium or sodium (Epsom salt, Glauber's salt)."

In preparing a barium-carbonate bait, an endeavour should be made to make the product contain from 25 to 50 per cent. of the chemical. The diluent may be almost any kind of fat (tallow, lard, or dripping), or meal, or both, so long as the mixture is attractive to the rats and mice. Λ bait without any specially attractive smell may be sufficient to tempt rats when they are short of food. While poisoning may take place throughout the year, it is usually most likely to be effective in the later months of the winter—say, February and March—when food is most scarce.

Oil of anisc, oil of rhodium, and other essential oils have often been advocated to add to the temptation of rat-baits. So has grated cheese. A convenient bait may be prepared by mixing one part of barium carbonate with three parts of oatmeal, mixed to a fairly stiff dough with water, and scented if desired. Or barium carbonate itself may be spread on fish or moist, toasted bread. The Agricultural Botanical Institute at Munich in 1905 scnt out large quantities of foodstuffs impregnated with barium

carbonate for the purpose of destroying mice.

The following recipes have official approval in Great Britain, but the third would be improved by the addition

of something to add to its attractiveness:

1.

Barium carbonate 6 oz.

Meal 16 oz.

Dripping 4 oz.

Salt ½ oz.

This makes 1,000 baits.

2.

Barium carbonate 4 oz. Biscuit meal or plain meal ... 4 oz. Oil of anisced 5 drops

Mix with fat to a paste, and lay in pieces the size of a hazel-nut.

3.

Barium carbonate 50 per cent. Tallow ,,

Mix with dripping to a thick paste and spread on cubes of bread the size of dice.

SQUILL,

The other fashionable rat-poison, which has also the advantage of strong and authoritative backing, is squill, the kind usually recommended being the so-called red squill (Scilla maritima), which is to be found in abundance on the Mediterranean coasts and has for long been much used as a rat-poison in France. There is no question as to the efficiency of certain preparations of red squill, but the literature of the drug does not furnish all the information which is needed on the subject. More research as to the toxic rat-killing properties of the glucosides and the calcium oxalate of the squill bulb is certainly desirable. The comparative value of the outer leaves of the bulb deserves special investigation, as does the question of the alleged superiority of the pink variety over the white variety of the British Pharmacopæia. Mr. Boulenger, of the Zoological Society of London. pronounces the liquid extract of red squill to be "the most effective rat-poison," adding that it is more toxic to rats than is barium carbonate, and that it is even less harmful to most domestic animals. Against this is to be set the fact that squill is the more costly, that there is some doubt as to the keeping properties of baits prepared from the liquid extract, and that not all liquid extracts yield the same The powdered squill bulb may without difficulty be incorporated into a mixture of barium carbonate with tallow and dripping, and these ingredients are in fact to be found mixed together in one proprietary poison quite recently placed on the market by a multiple-shop firm. Another mixture contains, in addition to a liquid extract

of squill, a small proportion of hydrochloric acid and a

preservative such as salicylic acid.

A well-known Continental way of preparing a bait is to bake a pancake—egg pancake not essential, but beef dripping advisable—to which 20 per cent. of finely chopped Scilla Maritima is added, either to the batter before frying, which is simpler, or placed between two layers of pancake after frying. When cold the pancake should be cut in pieces of about 1-in, square and laid in the rat runs or

If a liquid extract of red squill be used, a suitable bait can be made by mixing one pint of the liquid extract with a similar quantity of sweetened milk or of a savoury soup or broth, and mixing to a paste with three or four pounds of bread or flaked oats; or the liquid extract may be mixed in suitable proportions with biscuit powder, and the mixture flavoured in any manner which may suggest itself.

As the strength of the liquid extracts on the market varies, the writer is not in a position to name the lethal dose for a rat, but half a grain of the bulb has been stated

to constitute a fatal dose.

Whatever rat-destroying agent be selected, the imperative necessity for making the bait attractive to rats must be borne in mind; and local circumstances (particularly, for example, the nature of the other food available on the of example, the nature of the other rood available of the infested premises) may often give a clue as to the kind of bait to be avoided. A fish-bait, for example, might be the best to recommend for use in an infested granary. It is well to remember also that it may often be desirable to tempt the rats by putting down a harmless bait of similar appearance for a few days before laying the toxic mixture; and if a poisoning campaign at any place needs to be repeated after a very short at any place needs to be repeated after a very short interval, it would be well that the bait on the second occasion should not look or smell too much like that previously used.

Many rat-catchers have believed that poisonous baits should never be touched by the human hand before being laid, but recent experiments have tended to show that no sufficient reason exists for believing that this precaution is rendered necessary by the rat's detective powers, well developed though they undoubtedly are.

Proprietary Articles Trade Association.

THE first quarterly meeting of the new Council of the The first quarterly meeting of the new Council of the Proprietary Articles Trade Association was held at the Holborn Restaurant, London, W.C., on January 15. Mr. J. A. Kenningham, of Condy & Mitchell. Ltd., was elected President for the ensuing year, and Messrs. Page Woodcock, F. J. Smith, and P. F. Rowsell, Vice-Presidents. Mr. G. R. Barclay was reappointed Treasurer, and the following, with the above officers, were appointed to serve as an Executive Committee: Messrs, S. Kutnow and A. Ridout, for the manufacturers; J. C. McCaig and A. T. Webb, for the wholesalers; and A. R. Keith and Jonah Milner, together with the outgoing President, Mr. John Keall, for the retailers.

John Keall, for the retailers.

A long programme of business was gone through, one of the chief items of which was the question of the new railway carriage rates and their effects on P.A.T.A. prices. It was pointed out on behalf of the wholesalers that the increased charges created a serious position for them. If wholesalers had to bear all this extra burden themselves, their profits on proprietary articles, which are already very slender, would be wiped out. Labour charges are very heavy, being 5 to 6 per cent. of the turnover. New carriage rates would add on another 2 per cent., and it was suggested that a portion of this 2 per cent, should be passed on to the retailer, and by him, as far as possible, to the public where face value and stamp duty did not stand in the way. At first the Retail Section were strongly opposed to this, on the ground that the impost would eat into their profits, and that it would be difficult in a large number of cases to recover from the public. Various counter-proposals were mooted, and eventually the following temporary arrangement was unanimously agreed to: That 1½ per cent. on turnover be

added to the prices charged to the retailer on proprietary goods, the wholesaler himself bearing the other 1 per cent. Also, that the President and Vice-Presidents shall arrange an early date for summoning a conference between the Executive Committee of the Council and all the proprietors in the Association, with a view to devising a more rermanent arrangement.
THE COUNCIL ELECTION.

The details as regards the voting at the recent Council election (C. & D., January 3, p. 80) are now available. The following are the figures relating to the Retail

S. N. Pickard	1,594	W. L. Currie	1,503
J. B. Francis	1,586	G. P. Pond	1,415
John Keall	1,582	J. G. Atkinson	1.403
Jonah Milner	1,579	A. J. Barnes	1,208
H. W. Colley	1,564		-,200
P. F. Rowsell	1,560	A. Higgs	1.062
A. R. Keith	1,544	N. N. Armitage	852
R. F. Clarke	1,523		

The last two were not elected.

The above was accidentally omitted last week. Since then the following notice has been issued by the Proprietary Articles Trade Association in the "Anti-cutting Record."

INCREASED RAILWAY RATES.

One of those periodical crises which take place in the history of all Associations has again overtaken the P.A.T.A. As will be seen in the Council Report..., the increased railway rates are threatening to rob the wholesalers connected with the Association of almost all the spare profit which they had left to them after paying their overhead charges, which have increased so enormously as a result of the war and the commercial upheaval resulting therefrom. As several retailers and others have already communicated with the officers of the Association on this subject, and as remarks have been made expressing dissent from the method adopted by the wholesale houses. readers are asked to bear in mind that the Council had no other feasible alternative at the moment, but that it is hoped some better method may be devised at the forthcoming conference between representatives of the Council and the manufacturing members of the Association. In the meantime, any practical suggestions for the consideration of the manufacturers and Council will be welcomed. as the retail members of council gave their consent to the arrangement only as a temporary measure, to avert real hardship from the wholesale trade. Such suggestions should be received immediately to be of service, and should be of a really practical character. They may be addressed to the Secretary, 113 Temple Chambers, E.C. 4.

New Books.

Macdonald, D. M. Students' Pocket Prescriber and Guide to Prescription Writing. Sixth edition. $4\frac{1}{6}$ in. $\times 2^{\circ}$ in. Pp. 199. 2s. (E. & S. Livingstone, 17 Teviot Place, Edinburgh.) [This little book has been revised according to the British Pharmacopæia 1914. After a few pages in which the principles of prescribing are dealt with, there are given about 140 pages of prescriptions arranged for groups of diseases—c.g., alimentary, blood, nervous diseases, skin, etc. At the end are posological tables for adults and children, and a vocabulary of words used in prescriptions. Each of the formulas is numbered, and the disease for which they are used can be referred to at once by means of the index.]

Young, T. E. A Plain Guide to Investment and Finance. $8\frac{1}{5}$ in. \times $5\frac{1}{2}$ in. Pp. 324. 7s. 6d. Macdonald & Evans, 29 Essex Street, London, W.C. 2. [This is the third edition of a useful book on investing. It is divided into two parts. of a useful book on investing. It is divided into two parts, the first dealing with the choice of and the time for making investments. The second part explains in simple language the complicated question of finance, and discusses the various factors which influence prices of securities. The book contains much sage advice on the subjects dealt with, and should save money to people who have not yet obtained experience in investments.]

Pharmaceutical Society of Great Britain.

North British Executive Meeting.

A meeting of the Executive of the North British anch was held at 36 York Place, Edinburgh, on Janu-21, Mr. James Jack in the chair. There were present essrs. Arthur, Brown, Craig, A. Currie, Forbes, Guthrie, ck, Kitchin, McKenzie, McMillan, McNab, McVitae, eldrum, Murchie, and Murray.

DEATH OF SIR THOMAS R. FRASER.

The chairman referred to the death of Emeritus Prosor Sir Thomas R. Fraser, who had been for many an honorary member of the Society, and had shown at interest and been most helpful in connection with work of the Society in Edinburgh, particularly in the society of symptoms. ard to education. It was agreed that a letter of symthy and condolence should be forwarded to Lady Fraser d family.

NATIONAL HEALTH INSURANCE DISPENSING.

It was reported that a settlement had been arrived at tween the Scottish Board of Health, with the con-rrence of the representatives of the Scottish Association Insurance Committees, and the Pharmaceutical Stand-g Committee (Scotland) for terms for pharmaceutical vice in Scotland for 1920 on the basis of a 25 per cent. vance on the dispensing fees claimed by Scottish panel emists in 1913, and giving effect to the other terms of at claim and of a scheme for protecting panel chemists ainst the risk of discounting. The Sub-Committee on rug Tariff, Statistics, and Agreements had also contred with the Scottish Board of Health and the representation of the Scottish Agreeits of Insurance Committee of tatives of the Scottish Association of Insurance Comttees as to the new medical benefit regulations, and tisfactory adjustments had been made, it being clearly derstood that the requirement that a panel chemist ould exhibit the name of a neighbouring chemist should deleted, and also that the conditions as to hours of rrice should be a matter of local adjustment on terms to more onerous than are required to meet the needs the general population, and with a right of appeal the Scottish Board of Health in the event of any

EX-SERVICE MEN ALLOCATION COMMITTEE.

The report of this Committee consisted of minutes of eetings of the Allocation Committee for Ex-Service Men, eld on December 3, 1919, and January 5, 1920, which had en circulated. The report explained in detail the steps ken under the exceptional circumstances in Scotland
of give effect to the policy of the Council. The report as unanimously approved and adopted. Correspondence as submitted regarding inspection of training instituous and courses of study in Scotland, and the meeting receive the deputation from London. The Resident ceretary also explained that he had had applications rom several ex-Service men who had been actually ormally allocated for some time, but they had not yet eccived any payment, and he had written to the Secretary in Lordon with Lordon ry in London mentioning the cases, and suggesting that ome steps might be taken to hasten payment, as the men ere in financial difficulty.

The Executive approved of the action taken by the Resident Secretary.

CORRESPONDENCE.

There was submitted a letter from the Secretary exlaining the position in the Divisional Court proceedings gainst Boots, Ltd., under the Profiteering Act. There as also submitted a communication which had been ssued to local Associations in Scotland, pursuant to a imilar communication to local Associations in England

and Wales, giving suggestions as to procedure.

A letter from Miller, Thomson & Co., solicitors for the scottish Pharmaceutical Federation, was read, intimating

Thompson, Quarrell & Jones, solicitors, for the Pharmaceutical Society. It was agreed to enter these on the

ORGANISATION IN SCOTLAND.

The Executive considered that portion of the Secretary's letter, calling meetings for January 27 and 28, which related to a Special Committee of the Council attending the meetings to confer as to the Society's local organisation in Scotland. The Resident Secretary explained the history and position of local organisation in Scotland, with special reference to the origin and scheme of the compromise arrived at in 1886 and embodied in the resolution of Council of November 3, 1886, which fixed the constitution and working of the body known as the Executive of the North British Branch.

WAR AUXILIARY BENEVOLENT FUND.

It was reported that a further sum of 372l. 13s. had been remitted to London on November 27, making a total remittance of 1.450l. 6s. Since that date a further sum of 3l. 3s. had been received, giving a total up to date of 1,461/. 9s.

CONTROLLED PRICE OF SUGAR.

An inquiry had been received from a member of the Society who had previously been obtaining sugar supplied at 740, per lb., and he had now been asked to pay 1s. per lb. It was agreed to inform him that this was a general advance, and that there was no option but to pay the advanced price.

Evening Meeting in Edinburgh.

THE third evening meeting of the session of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on January 21. Mr. James Jack, Ph.C., F.L.S., J.P., who occupied the chair, referred to the loss sustained by the dcath of Sir Thomas R. Fraser, a distinguished honorary member of the Society. Three papers were read. The first one was on

THE B.P. METHOD FOR DETERMINING MELTING-POINTS. By W. Lockerbie Thomson, B.Sc.

If the British Pharmacopæia directions are followed in taking the melting-point of diamorphine hydrochleride trouble is experienced. The melting-point of the salt is 231°-232° C., and in accordance with the directions the liquid should be heated to 226° C., and the melting-point tube containing the diamorphine hydro-chloride inserted. If this is done, immediate melting takes place, while "visible change" takes place at a considerably lower temperature. As the British Pharmacopæia defines the melting-point as that point at which "visible change" first shows, a sample of diamorphine hydrochloride would not give the correct melting-point if the melting-point is taken as directed. But if the melting-point of diamorphine hydrochloride is taken in the usual manner, the true reading is obtained without any difficulty. In the case of cocaine, whose melting-point is 98° C., the British Pharmacopæia directions again do not apply. In criticising appendix VIII. of the British Pharmacopæia, the author said it appears as though the compiler of the monographs had either tired of his programme or come to the conclusion that their insertion was of dubious value. If the British Pharmacopæia is to have such an appendix, its treatment should be in the hands of a properly trained chemist.

DISCUSSION.

Mr. HILL said he had always had grave doubts as to the wisdom of subjecting a substance suddenly to a very high temperature, as in the case of diamorphine hydrochloride, and Mr. Thomson's results entirely confirmed his doubts. Certainly in the case of cocaine it seemed absurd to heat it for fifteen minutes to 100° C. These points gave force to the criticism that the British Pharmacorceia is behind the United States Pharmacopceia in accuracy of detail on chemical and physical points. hat the Federation had departed from the agreement of July 4, 1919, and enclosing copy of a letter sent to publication of the B.P. being in the hands of medical practitioners. Although in this country expert opinion was taken by the medical editors of the Pharmacopæia, it frequently happened that it was not given effect to.

Mr. Dorr said he quite agreed with Mr. Thomson, and that there was a tendency to leave too much in the hands of medical practitioners in the producing of the Pharmacopæia. He thought this interesting contribution ought to have attention when the Pharmacopæia again came to be revised.

The next paper was :

SPECIAL STRAINS OF MEDICINAL PLANTS BY SELECTION.

By W. G. Smith, B.Sc., Ph.D.

Agricultural-plant breeding is largely done by public bodies and the results are published. On the medicinal-plant side, what has been done is due to private cultivators, who, naturally, keep to themselves any information acquired as to methods of securing improved production and quality. After indicating the principles and methods employed in agricultural work, the author pointed out, with regard to the medicinal-plant side, how a study of the species and varieties of French lavender has enabled growers to recognise the better ones. The finest oil is obtained from Lavandula vera fragrans and Lavanoil is obtained from Lavandula vera fragrams and Lavandula vera delphiniensia. No other species are worth cultivating for oil to be used in medicine or perfumery. Lavandula spica is native, but yields very inferior oil, used chiefly for varnishes. There is a hybrid Lavandula vera × spica which also yields a very inferior oil. The superiority of English lavender is the result of long cultivation by a few intensive growers. With regard to Hungarian oil of peppermint, organised effort to secure improvement becam in 1804 and has been greatly deimprovement began in 1904 and has been greatly developed. One of the pioneers was curé Joseph Agnelli, who has raised the Agnelliana varieties of Mentha crispa and Mentha piperita. The high excellence attained is indicated by the following comparative statistics: Hungarian oil of Mentha crispa yielded from 62 to 71 per cent. of lævo-carvone; American, 35 to 56 per cent.; German, 35 to 56 per cent.; and Russian, 5 to 10 per cent.; Hungarian oil of Mentha piperita yielded 43 to 56 per cent. of free menthol, and 35 to 65 per cent, of total menthol; while American oil of Mentha piperita yielded 40 to 45 per cent, for worther provide wielded 40 to 45 per cent, for worther 35 to 65 per cent, of total menthol; while American oil of Mentha piperita yielded 40 to 45 per cent. free menthol, and 60 per cent. total menthol. Camus has shown ("International Bulletin," 1912, p. 160) that Mentha piperita is really a hybrid between Mentha viridis and Mentha aquatica. The variety cultivated in France is known as "Red Mint," and can grow on certain soils where the true peppermint does not grow. The "Red Mint," can be cultivated for four or five years in the same field, but the true Mentha piperita can be cultivated in the same field for two years only. "Red Mint," gives a higher yield of oil, but of inferior quality. Special selection experiments in America had secured an improved yield of alkaloid in the case of Atropa belladonna and Datura stramonium. Belladonna plants normally yielding 0.23 per cent. of alkaloid, after selective cultivation yielded 0.55 per cent.; plants normally yielding 0.43 per cent., after selection yielded 0.72 per cent.; and plants normally yielding 0.62 per cent., after selection yielded 0.87 per cent. In the same way *Datura* plants normally yielding 0.34 per cent. of alkaloid, after selection yielded 0.57. 0.53 per cent.; and plants normally yielding 0.35 per cent., after selection yielded 0.56 per cent. The improvement of medicinal plants will require for its development special investigations along two main lines: (a) Cultivation, conditions of pollination, harvesting, and other cultural details; (b) technical difficulties of assay and therapeutic application.

Discussion.

Mr. Box said the increase in cost of medicinal plants had led them to consider the growing of them more freely in this country. He related the experience of a friend of his, who had burned lettuces, analysed the ash, and, finding what salts were present, had applied these salts to the soil, with the result that his lettuces were a great deal better than those of other growers in the same district. He told also of a curious experience in Liddesdale,

which was a district where apples would seldom ground There had been considerable disease among salmon in triver, and the diseased fish were taken out by the water bailiffs and buried. A man who had an apple-tree which never yielded fruit obtained two large dead fish from the bailiffs and buried the fish in contact with the root Next season, to the surprise of all his neighbours, the tree bore an abundant crop of fine apples. The next conmunication was on

THE ASSAY OF IRON FILINGS FOR PHARMACEUTICAL US By H. Hindley, Ph.C.

Iron filings are official in the German Pharmacopæia: Ferrum pulveratum, but the assay process therein give estimates the total iron only. The proportion of from metallic iron may be estimated by the official B.1 method for ferrum redactum. In using this process for ferrum redactum it has been pointed out by Pea ("Year-book of Pharmacy," 1898, p. 399) that it is dit cult to secure accurate or even concordant results unhe certain experimental details be adhered to, and in assaring a number of samples of iron filings by the B.1 process another complication made itself evident. The results obtained were not only discordant, but in son cases impossibly high, being several figures over 100 pecent. Using Peck's modification similar results we obtained. This was not explainable for some time, to on one occasion a smell of phosphine was noticed in thot, unacidified solution. The presence of phosphin suggests the presence or formation of hydrogen, eithe as occluded hydrogen or formed by galvanic action betwee the copper and the iron, and combining while nascent with the phosphorus in the iron. The latter explanation is the more probable. As phosphine, PH₃, reacts with poterslum permanganate, KMnO₄, according to the equation

 $\begin{array}{c} 8KMnO_4 + 12H_2SO_4 + 5PH_3 = 4K_2SO_4 + 8MnSO_4 \\ + 12H_2O + 5H_3PO_4, \end{array}$

it was considered likely that traces of phosphine (an probably some hydrocarbon) were responsible for the abnormally high results obtained. It will be seen from the above equation that

 $8KMnO_4 = 5PH_3 = 4OFeO$; i.e. $PH_n(35) = 8Fe(447)$

so that phosphine has the reducing power of about thirteen times its weight of iron. So little as 0.00043' gram of phosphine reduces 1 c.c. of $N/10~{\rm KMnO_4}$. Sulphuretted hydrogen would act similarly, but the proportion of phosphorus in iron (which may be 0.7 per cent. in cast iron) is from four to seven times that of sulphur Assuming that phosphine, the presence of which was proved, was the disturbing factor, prolonged boiling watried to eliminate it from the solution, and this was found successful. The following process was employed:

0.25 gram of iron filings and 1.25 gram of copper sulphate were ground together in a small mortar thoroughly to sub divide the filings, then rinsed into a narrow 4,000 c.c. glas beaker, with about 60 c.c. of cold water. The contents of the beaker were then brought to the boil and kept briskly boiling till reduced to about 15 c.c., then rapidly filtered preferably at the pump, through a Gooch crucible, of through a small Buchner funnel. The time of filtration is thus reduced to a few s. conds, lessening the chance of oxidation and mechanical loss. Filtration must be therough, and no trace of precipitate must be allowed to remain in the solution, for it has a strong reducing action on the permanganate. Wash with about 100 c.c. of cold water, add sulphuric acid, and titrato as usual.

This treatment appears to get rid of the phosphine. Either it is volatilised as formed or it is completely precipitated at the boiling temperature by the excess of copper sulphate. Brisk boiling also aids interaction by keeping the particles from massing together. There is no fear of oxidation while boiling as in the narrow beaker, the liquid is covered with an atmosphere of steam. The originators of the process official in the German Pharmacopæia, may have had the effect of such impurities in mind when they devised the method there described. The work in connection with this note was carried out in the laboratory of Evans Sons Lescher & Webb, Ltd., Liverpool.

DISCUSSION.

Ir. Dorr said the interesting point was that a very ill proportion of phosphine led to a very big dispancy, as was clearly indicated by Mr. Hindley.

EXHIBIT OF SPECIMENS.

Afterwards, Mr. Hill drew attention to an interesting umple of sublimation in a bottle containing carbolicd lozenges. The lozenges had been standing in the the for some time on a shelf, and on the back of the tle rext the wall there was a fine coating of carbolic d in long crystals, due to slow sublimation from the enges. The specimen was sent by Mr. Spence, of slie. He also showed a yellow specimen of potassium ide in small crystals which had very quickly developed s colour. The sample was nearly neutral to test paper, d the crystals were moist. On washing a few of the stals with chloroform the yellow colour was removed d appeared, therefore, to be superficial. It seemed more mmon in the granular crystals of potassium iodide, and showed a specimen of potassium iodide in the larger stalline form which was more than forty years old and s still perfectly colourless, and it was also slightly kaline to test-paper. The salt gave practically no our reaction with starch. The small granular crystals our reaction with starch. The shart grandar dystands are med to be obtained either by some special method of ystallisation occupying much less time than was reired in producing the larger crystals, or possibly in me cases by the crushing of the larger crystals. In a cent interesting note at a meeting of the Society of hemical Industry in Edinburgh, Dr. Cumming pointed t that one chief point in securing permanent colourless ystals of potassium iodide was to secure that the soluon from which they were crystallised was perfectly utral. The U.S.P. described potassium iodide as utral or sometimes slightly alkaline. The B.P., on the her hand, described it as usually slightly alkaline. The ea of having it slightly alkaline was to secure white ystals, but this ignored the fact that iodate or hypodite was concealed, and the excess of potassium caronate, which was deliquescent, led to the crystals coming moist, with consequent hydrolysis and liberator of iodine. It would be interesting to know whether her pharmacists encountered this recent tendency of otassium iodide to become yellow.

The CHAIRMAN said the reference to yellow colour reinded him of a recent interesting experience. A man ho had been many years in Burma, and lately re-uned to this country, had come to him for a supply f santonin, which he was in the habit of taking in I-grain doses. He explained, however, that it was necesary to expose it to sunlight till it became completely ellow, as it was only that photo-santonin, as he styled it, hich he could take with safety in such quantities.

On the motion of the Chairman, votes of thanks were iven to the authors of papers. Attention was then lirected to additions to the library, and votes of thanks

ere accorded to the donors of books.

Organising the Drug-trade.

Drug Union Meetings.

As a result of a mass meeting held at Anderton's Hotel, leet Street, London, on January 18, over 300 members of the staff of Boots, Ltd., joined the Amalgamated Society of Pharmacists, Drug and Chemical Workers. The meeting, which was the first of a series to be held ll over the country, was attended by managers and palified chemists. The meeting further decided to draw ip a scale of wages for managers, qualified assistants. and apprentices, to be adopted as a national scale for all Boots' shops throughout the country.

THE Dundee branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers held a meeting in the Foresters' Hall on January 8 in conjunction with the Dundee Chemists' Assistants' and Apprentices' Association, at which it was decided that the two bodies should amalgamate under the name of "The Dundee and District

Branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers." The following office-bearers were elected: *President*, Mr. Lyall J. MacDougall; *Secre-*The following office-bearers Sary, Miss Jean A. McMath; Minute Secretary, Miss Nora E. Moore; Treasurer, Miss Jean Ferrier; Committee, Misses Forbes, Gibson, Thomson, and Watson; Messrs. Kelly, D. Robertson, W. Robertson, W. Maxwell, and A. Whyte. The election of a Vice-President was left over till the next meeting. It was intimated that there was a balance of 4l. 10s, from the recent whist-drive and dance, and 50 per cent. was voted to the Scottish Divisional Council. It was agreed that one delegate perhundred members be sent to the Scottish Divisional Council, and that 1d. per member, per month, be the affiliation fee.

THE Bradford branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers held the first annual meeting, on January 19, at Laycock's Café, the chair being occupied by Mr. Green (Vice-Chairman). Mr. J. H. Batley (hon. secretary) reported the receipt of letters from several districts in the North of England, asking if he can arrange for local branches of the Union to be formed, as the need for alteration of working hours, wages, and conditions is generally felt. Favourable replies from Colonel Willey and Captain Loseby, two of the four local members of Parliament, in response to the branch's resolution urging support of the forty-eight hours Bill, as applied to distributive trades, have also been received. The secretary presented his report of the branch for 1919, and showed that the membership has increased and the finances are on the safe side. noted with interest a movement in other unions in favour of amalgamation with the Drug Union, and it seemed now to be only a question of time before all drug workers will be combined in one representative body. The meeting be combined in one representative body. then passed a resolution, to be telegraphed to London immediately, urging that the Cheltenham dispute levy should apply equally to wholesale and retail assistants, instead of being only 6d. weekly for the former, as against 1s. for the latter, and that it should not apply to apprentices.

lational Warehouse and General Workers' Union

A MEETING of the Newcastle Pharmacists' and Assistants' Section of the National Warehouse and General Workers' Union was held at the Church of England Institute, Hood Street, on January 20. Mr. Burns, chemist and druggist, presided over a good attendance, and in his opening remarks pointed out how their position as assistants had gradually got worse from the beginning of the war. He also mentioned that, although they gave a ten-hours consecutive service, the Insurance Committee had approached them with a view to giving a still longer one. Any attempt to increase the already long hours of chemists assistants would be stoutly resisted. Mr. G. Beardsworth, the District Organiser, said the union had accepted the idea of organisation on the lines adopted by the proposed Industrial Council for the drug-trade; on this council wholesale and retail employers would settle whatever differences they had before meeting the trade-union representatives, and the best way to ensure that the same thing would be done by their side of the council was by meeting together in conference to draw up a programme for presentation to the employers. Mr. Beardsworth then dealt with the programme which had been already adopted by a conference of pharmacists and assistants at Liverpool (C. & D., 1919, p. 1447). At the close a number of new members was enrolled, and it was decided to hold weekly meetings. A vigorous campaign in the district will be conducted.

"THE LINK," a recent number of which has just reached us, is the works magazine of Robinson & Sons, Ltd., Chesterfield. It is a vivacious booklet of thirty-six pages, containing, as an inset, a coloured plan of a proposed model village calculated to excite the envy of mere dwellers in towns. It is hoped to get building started soon on a fourteen-acre site. The magazine incidentally reveals the remarkable efficiency of the works organisation.

Associations' Winter Session.

Bradford.—A meeting of the Bradford Pharmacists' Association, on January 15, Mr. W. Sutcliffe in the chair, was addressed by Mr. F. Filkington Sargeant (Leeds), on Pharmaceutical Matters. Mr. Harold Miller (Cheltenham), who should have addressed the meeting, was prevented by illness from doing so, and a vote of sympathy was sent to him, with a hope that his coming sea voyage will be beneficial. The provisional appointment of Mr. F. E. Burdett as the Association's delegate to the Local Associations Executive was confirmed. Mr. Sargeant spoke at length on the new educational by-laws and the division of the Qualifying examination. He said there is a slight possibility of danger of the scientific teaching in the technical schools being too academic because the teachers will not be pharmacists. Properly equipped schools of pharmacy, in his opinion, cannot be run as a business proposition for pecuniary gain. The Major examination is useless to the ordinary trading pharmacists, but some examination might be arranged for men who wish to specialise for the many new posts which will doubtless be opened in bacteriology and other phases in connection with the Ministry of Health. Mr. Sargeant, speaking of the training of ex-Service men, said the number of candidates had been very large. Mistakes, however, were very much fewer than might be expected in such a scheme. The Society was ready with its ideas and its War Auxiliary Benevolent Fund before any other body, and the Appointments Department of the Ministry of Labour has worked in conjunction with the Society. The new student, Mr. Sargeant stated, is deficient in Latin, and the pharmaceutical student has been notably deficient in arithmetic. He then spoke on the Insurance terms, and said that the talk about coming off the panel when the request for 50 per cent, was refused was merely "hot air," and he noticed that the people who talked most in that strain are now trying to prove that the 35 per cent. granted is really 50 per cent. Mr. Sargeant entirely favoured the federation system, and though he was not sure that there is anything at all which the Society cannot do, he admitted that there is room for difference of opinion, and if the matter is not settled by the two eminent counsel the position will probably have to be decided by a friendly action at law. Mr. Sargeant said he did not know exactly what good an Industrial Council for the craft can do, but if one is coming both masters and assistants must be organised, and he hoped the latter will see the wisdom of getting together under one banner. The assistants, too, must act reasonably, because if wages get too high the natural result will be unemployment for many men, especially in view of the coming of some 1,600 newlyqualified men within the next two years. Mr. Sargeant foreshadowed a doubling of the subscription to the Pharmaceutical Society, and no doubt if the subscription is increased the life-membership fee for new men will also be higher. The chairman said if the craft is to be so congested by new-comers that salaries will be reduced. the Society does not seem to have done a very good turn to chemists.

Bournemouth,—The annual general meeting of the Bournemouth Pharmaceutical Association was held on January 23, Mr. D. D. Buchan in the chair. A letter was read from Mr. F. J. North (a former assistant secretary) resigning his membership. The President, in expressing regret, wished him every success in his new venture. After hearing a satisfactory report from the treasurer, the following officers were elected for 1920: President, Mr. H. J. Martin; Treasurer, Mr. T. L. Harding; Secretary, Mr. A. J. Worth; Assistant Sceretary, Mr. A. F. Attwell; Committee, Messrs. Scampton, Lodder, Baines, and Sharland.

Devon.—A meeting of the Devon Pharmaceutical Association was held on January. 21 at the Rougemont Hotel, Exeter, Mr. P. F. Rowsell, J.P. (President), in the chair. Mr. D. A. Evans gave an account of the Local Associations Conference of January 6, and Mr. E.

Lemmon also spoke. A joint meeting of the County Association and the Exeter Pharmacists' Association was then addressed by Mr. John Keall (chairman of the Chemists' Defence Association) on the Proprietary Articles Trade Association and Chemists' Defence Association. Afterwards, criticisms were answered. Mr. Keall, who was described by the President as one of the "live wires of pharmacy," was cordially received. At the close of the meeting the members were entertained to tea by the President.

Ealing.—The monthly meeting of the Ealing Pharmacists' Association was held on January 13, Mr. 8. C. McKee in the chair, at which Councillor Cobbin spoke on the proposed formation of a Council to be composed of representatives from all the local distributing trades, who would discuss trade topics and form plans to meet any business problems. The meeting agreed to take part in the work of such a council. The meeting also decided to be associated with a resolution that the Grocers' Association was sending to the Ealing Town Council referring to Profiteering Committees. The forthcoming dinner and the new Insurance terms provided ample scope for discussion.

Edinburgh—A meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association was held at 36 York' Place on January 23, Mr. H. Stout, Ph.C. (President), in the chair. Mr. W. Lockerbie Thomson, B.Sc. gave an interesting practical demonstration on the taking of boiling-points. By means of a distilling flask fitted with thermometer, Liebig's condenser and receiver, a Kew standard thermometer, and special forms of thermometers he explained the modus operandi in detail of taking a boiling-point, and indicated the precautions to be observed and possible sources of error. Mr. G. F. Merson, Ph.C. then gave an interesting and informative talk on surgical dressings. The portion dealing with catgut and other surgical ligatures, in which he has specialised, was fully explained and illustrated by means of a large collection of specimens. Beginning with the prepared entrails of the sheep, or other animals, he illustrated the various stages, including the precautions for elimination of bacteria and securing sterility in the finished article.

Hull.—The annual meeting of the Hull Pharmacists' Association was held on January 20, when Mr. Snowden (President) occupied the chair. The Secretary's report was adopted. The Treasurer next reported that, although there had been a big expenditure, he could still show a credit balance. This report was also adopted. Mr. Snowden, the retiring President, then reviewed his term of office, and announced that a total of 170/. had been raised for the War Auxiliary Benevolent Fund. The following officers were afterwards elected: President, Mr. J. J. Spilman. Vice-Presidents, Messrs. Snowden, Newton, and Iddon, Secretary, Mr. T. H. Newton. Minute Secretary, Mr. W. G. Bennett. Treasurer, Mr. Tebb.

Leamington—The Warwickshire Pharmaccutical Association met at Leamington on January 22, when the following officers were elected: President, Mr. Hutton (Leamington); Vice-President, Mr. Lester. senior (Nuneaton); Treasurer, Mr. Nundy (Leamington); Hon. Secretary, Mr. Davis (Leamington). The Executive Committee (Messrs. Hutton, Price, Nundy, and the sccretary) were reappointed. Members are to be asked whether Wednesday or Thursday is the better day for county meetings. The subscriptions for the year amounted to 11l. 15s., the expenditure to 17l. 15s. 11d., of which 7l. 18s. was due to the supply and distribution of minimum retail price-lists. A resolution that the annual subscription be raised to 7s. 6d, was afterwards carried. The secretary was instructed to send a report of the meeting, together with a résumé of the Association's work during 1919, to every pharmacist in the area, and embody in it suggestions from the Local Associations Executive Committee.

London (Co.)—A meeting of the London County Pharmaceutical Association was held on January 20, Mr. G. B. Barnard (President) in the chair. The position of chemists in regard to the sale of rat-poison was erred to the Trade Sub-Committee for consideration haview to fixing a uniform price for the supply of bait. The secretary gave a report on the Profiteering t, with special reference to the cases heard at the adon Appeal Tribunal. The Organisation and Trade b-Committee reported that it was necessary to press a profit of 33½ per cent. on returns from proprietaries, I the Committee decided for immediate action. Sing out of this report, a discussion took place on a imposition of 1½ per cent. by wholesalers on the pply of proprietary preparations to retailers. The mmittee requested the secretary to send a letter of the total to the Proprietary Articles Trade Association, and ferred the matter to the Organisation and Trade Submittee. The report of the Pharmaceutical Insurance ab-Committee was adopted. The question of the issue a London chemists' price-list was again considered, and, ter some discussion, it was decided to refer the subject the Trade Sub-Committee.

London (S.W.).— The monthly meeting of the South-Vest London Chemists' Association was held on Janury 20, the President (Mr. John Humphrey) in the chair. ver lifty members were present. An address was given by Ir. Herbert Skinner on the new London Retail Price List, he explained the method in which the list is compiled. The list does not claim to give "minimum retail prices," at aims at fair prices which will yield a reasonable rofit, and one which does not, in any case, exceed "the air average rate earned by persons in the same way f business upon the sale of similar articles under prevar conditions." In addition to the ordinary drug prices, he dispensing list is an important feature. The difficulty of arriving at a fair and remunerative scale is considerable, but the method used in this list is based on a careully worked out costing system. A charge made on this ystem can be readily justified by figures, and it is only by charging on such a system that one can ensure that he dispensing department yields a fair and reasonable profit. Mr. Skinner, in responding to questions, said he list is to be revised monthly by a committee having epresentatives from the London and district associaions. A discussion on the new Insurance terms followed, and afterwards the President and Mr. E. A. Atkins gave heir impressions of the conference. Several members expressed dissatisfaction with the new terms, particularly the regulations with regard to a compulsory rota in certain areas, and stated that they would resign from the panel rather than join a late-service rota without suitable extra remuneration.

Middlesex.—A meeting of the Middlesex County Executive was held at the Progressive Pharmacy Club on January 14. Matters under consideration included the question of profit on certain proprietary goods, federation proposals, proceedings under the Profiteering Act, arrangements in connection with the Rats and Mice (Destruction) Act, and retail price-lists for chemists.

Redhill—The monthly meeting of the Reigate and Redhill Pharmacists' Association was held on January 14, Air. Knight (President) in the chair. Mr. Rickard (Sanderstead) and Mr. Ryder (Warlingham) were elected to membership, and it was decided to adopt Philip's pricelist as a guide for the pricing of drugs. A discussion followed on the Insurance terms for 1920, and satisfaction was expressed at the results obtained by the Local Associations Executive. With regard to the suggested rota, this was opposed, as it was considered that hours of business should be curtailed rather than extended.

U.C.A.L.—On January 14 a lecture was given to the Birmingham branch of the Ucal Federation by Mr. Marsh Hampton, B.Sc., the subject being *The Spectrum and its Teaching*. The lecturer traced the history of the spectroscope and the manner in which spectroscopic methods had been utilised in chemical, physical, and astronomical research. The address was illustrated by lantern slides.

Walthamstow.—A meeting of the Walthamstow Pharmaceutical Association was held at the Imperial Café, 159 Hoe Street, London, on January 7. An address on Federation was given by Mr. S. G. Tydeman (secretary of Essex County Association), in which he emphasised the importance and necessity for cohesion at the present time, giving as an example the way the medical profession stand together. Mr. Tydeman explained in detail the new Insurance dispensing terms for 1920, and pointed out that, although the terms are not as good as it had been hoped to obtain, they are not final, but open to reconsideration in June. It was decided to hold a whist-drive on February 5.

Festivities.

Derby Assistants' Social Evening.

On January 21 a successful whist-drive and dance was held at the Assembly Rooms, Derby, where about 150 members and friends were present. The President (Mr. J. Cooke) officiated at the whist-drive, and Mrs. C. Weston presented the prizes. At the dance which followed, Mr. G.-A. Pover officiated as M.C.

Brighton Assistants' Whist-drive.

The Brighton branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers held an enjoyable whist-drive on January 21. The prizes, which were given by friends, were distributed by the President, Mr. F. W. Knowles. The arrangements were carried out by Mr. C. B. Carter (M.C.) and the secretary, Mr. B. Wimbush.

Edinburgh Assistants' Social Evening.

A successful social evening was held by the Edinburgh Chemists' Assistants' and Apprentices' Association in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on January 14, Mr. H. W. Blair (Vice-President) in the chair. Songs, dramatic sketches, pianoforte and violin solos were rendered by Misses E. Gardner, May and I. Ingram and by Messrs. S. Calder (who also acted as accompanist), C. W. Mackenzie, and H. R. Nightingale.

Newcastle Pharmacists' Dinner.

The Newcastle-on-Tyne Pharmacists' Association held a successful dinner on January 21. The chair was occupied by Mr. T. H. Flemming, Ph.C., and the guests included the Lord Mayor of Newcastle (Mr. Walter Lee), the Sheriff (Mr. R. Mayne), Alderman C. T. Stableforth (chairman of the Sanitary Committee), and Dr. H. Kerr, M.O.H. Mr. T. Maltby C'ague proposed the toast of "The Lord Mayor and Corporation," Messrs. Lee and Mayne responding. Mr. F. Gilderdale gavo "The Medical Profession," to which Drs. Kerr and Rutter replied. Other toasts were "The Pharmaceutical Society," proposed by Mr. T. H. Flemming and acknowledged by Mr. F. Filkington-Sargeant; and "The Newcastle-on-Tyne Pharmacists' and Kindred Associations," proposed by Alderman C. T. Stableforth and replied to by Messrs. J. F. Simpson and C. Hodgson (Sunderland). This was the first dinner held by the Association since 1913.

Ealing Pharmacists' First Dinner.

The first dinner of the Ealing Pharmacists' Association was held at Eden's Restaurant, Ealing, on January 21. The President (Mr. S. C. McKee) was in the chair, and forty ladies and gentlemen were present. After the toast of "The King," the Chairman proposed "The Pharmaceutical Society," to which Mr. John Humphrey replied. "The Ladies" was proposed by Mr. Irwin, and Mr. Flood responded. Mr. Marns proposed "The Visitors," and to this toast Mr. Arrowsmith replied. These were the only toasts on the programme, but Mr. Humphrey said that there was, in his opinion, one important toast missing, and that was "The Ealing Pharmacists' Association," which he proposed after a few eulogistic remarks, in which be referred to the work of the secretary (Mr. Marns). The toast was drunk with musical honours, cheers being given for Mr. and Mrs. Marns. A capital concert was afterwards provided, and an enjoyable evening concluded with "Auld Lang Syne."

Trade Report.

42 Cannon Street, E.C. 4. Jan. 29.

THE quieter feeling noted in business last week in the Mincing Lane produce markets has again continued, and although several products have eased there has been no decided fall in prices. In fact it is difficult to see how lower prices can prevail as general expenses in conducting business continue to mount up, and there are also fresh demands for increased wages on the part of the transport workers to be considered. The demoralised condition of the international exchanges continues to have an unsettling effect on business, as a further heavy depreciation has taken place this week in the French and Belgian franc and Italian lire, while at one period of the week the new low record of \$3.56 was touched, making the purchasing power of the British sovereign in America about 14s. 4d. The shellac market shows a decided reaction, especially for delivery, May position having fallen about 80s, per cwt. Pepper and cloves have been easier. 80s. per cwt. Pepper and cloves have Japanese products, such as menthol and oil of mint, are also easier owing to lack of demand. Quicksilver is lower and unsettled. Mercurials are unchanged, but vermilion is lower. Chemically pure glycerin is 51. per ton higher. Citric and tartaric acid are both in good demand for export to U.S.; supplies are now difficult to find, and makers appear to be fully sold. Bromides are arriving freely from various quarters, and potash can be had at a slight reduction. Acetanilide, barbitone, creosote carbonate, formaldehyde, methyl salicylate, and phenacetin have moved in seller's favour. Salol and theobromine soda sal are cheaper. West Indian lime and Sicilian lemon oils are dearer.

Higher	Firmer	Easler	Lower
Aloes (Cape) Benzol Citric acid Creosof e carb. Formaldehyde Galls (Cb.) Glycerin Ipecacuanha Lemon oil Lime oil (W.I.) Jinseed Linseed oil Mace (W.I.) Orange oil Petroleum Sugar Tartaric acid	Acetanilide Albumen Burbito ae Cinnamon oil Copper sul- phate Methyl salicylate Phenacetin	Areca Camphor (fp. slabs) Clove oil Juniper-berries Mentbol Mint oil (Jp.) Nutmegs (W.I.) Salol	Cloves Cca leaves (Amst. auction) Pepper Phenol- phthalein Potash bromide Quicksilver Shellue Thoobromine soda sal. Vermilion

Cablegram.

New York, January 27.—Business is fair. Antipyrin (phenazone) is 25c. per lb. dearer at \$6.75, and balsam Peru has advanced a further 50c. to \$5.75 per lb.

ACETANILIDE has a firmer tendency at from 4s. to 4s. 3d.

AGAR-AGAR is quiet, with No. 1 Kobe strip selling at 3s. 2d. to 3s. 3d., and No. 2 Yokohama at 3s. per lb. on the spot.

ALBUMEN is still in upward tendency, prime Chinese egg having been sold on the spot at from 5s, 7d, to 5s, 10½d, per lb.

ALOES .- Cape firsts have been sold at the higher rate

of 828. 6d, per cwt.

ANILINE OIL.—Owing to scarcity, export licences continue to be refused, and the price is nominal at from 1s. 9d. to 1s. 10d. per lb. Aniline salts are quoted at from 1s. 10d. to 2s.

ANISE OIL, STAR, is very quiet, with spot sales of

"Red Ship" brand at 5s. 9d. per ib.

ANISE, STAR.—Spot sales of fair Chiuese have been made from second hands at 175s, per cwt.

Areca.—Good bold sound Ceylon can be had at 87s, 6d. per cwt., with a fairly pientiful supply.

Arrowroot is unchanged, and in view of the heavy stocks business is hand-to-mouth.

Aspirin is firm at from 58. 6d. to 58. 9d. per lb., wi several large inquiries on the market.

BALSAM TOLU.-Fair bright can be had at from 9 to 98. 3d. per lb. on the spot, as to quantity.

BARBITONE is firmer, importers offering at from 28s.

29s. per lb. Benzoates.—Both acid and soda are quoted at 5%. 58. 3d. per lb., but some American parcels from dealer hands are offered at slightly less.

BORAX.-Present basis contract prices from makers are Crystal or granulated, commercial quality, 41l.; por dered, 42l.; extra fine texture, 43l.; guaranteed B. extra refined crystal, 43l.; powdered, 44l.; extra fin powder, 45l. Chemically pure crystal, 44l, 10s.; powde powder, 45l. Chemically pure crystal. 44l. 10s.; powder 46l. Fused (borax glass) lump in free 1-cwt. tin-line cases, 103l.; powder, 104l. Calcined, about 78 per cen anhydrous borax, 84l. (1l. per ton extra for each 1 pcent. anhydrous borax over 78 per cent.). Octahedra in free 1-cwt. tin-lined cases, 76l. Packages at the following surcharges: 1-cwt. bags, 1l.; 1-cwt. kegs. 3l. 2- to 4-cwt. casks, 2l.; 5-cwt. casks, 1l. per ton extra cases, and other packages at cost. cases and other packages at cost.

Boric Acid.—Present basis contract prices from maker are: Crystals, granulated, or small flaked, 741. per ton powdered. 76l.; extra fine ditto. 78l.; paillette (larg flaked), 87l. Granulated B.P. extra refined rystals 84l.; powder. 88l.; extra fine ditto. 90l. Packing i 2-cwt. bags is free, but there are surcharges for othe packages varying from 1l. to 4l.

Bromides .- Potash, which has been arriving more freely from various markets, is temporarily depressed, and price are easier, with granular or crystals offering at 4s. and slightly less in large quantities. Ammon. is comparatively scarce at 4s. 3d. to 4s. 6d., and soda is quiet at from 48. to 48. 3d. per lb.

CALUMBA .- With increasing stocks, values are largely nominal. Medium to bold natural sorts can be had at 65s, to 70s, and dusty sorts at 60s, per cwt. The Medita from Bombay has brought 1,187 bags.

Camphor (Refined) is quiet, with sales of Japanese 2½-lb. slabs at 20s. 3d. to 20s. 1½d. on the spot, and January-February shipment has sellers at 19s. 6d. c.i.f.

CASCARA SAGRADA sells in small lots only at f.om

107s. 6d. to 110s. per cwt. on the spot.

Cassia Fistula.—Spot sales of fair have been made at 180s. per cwt., but it is difficult to replace at this

Cassia Lignea is steady, whole selected selling at 103%, and broken is inactive at 77%, 6d, per cwt.

CINCHONA.—At the Amsterdam auction on January 21 492 packages (394 bales and 98 cases) Java pharmaceutical bark offered, weighing 21,624 kilos, and containing the equivalent of 628 kilos. quinine sulphate. Of this quantity 335 bales and 98 cases, weighing 17,444 kilos, with a quinine content of 466 kilos., sold. The prices paid ranged from 51\frac{3}{6}c, to 151\frac{1}{6}c, per half-kilo. Of manufacturing bark the equivalent of 3,150 kilos, quinine sulphate was tendered on January 22. The first-hand stock of manufacturing and pharmacentical bark at Amsterdum on December 31, 1919, was 3.621 packages.
CINNAMON OIL.—Spot sales of Ceylon leaf have been made at 10½d, to 10¾d, per oz., and afloat at 9¾d, c.i.f.

CITRIC ACID.—The large American demand for prompt shipment continues, but it exceeds the supply available, and from 4s. 3d. to 4s. 6d. per lb. has been freely paid for tou quantities. The price on Wednesday closed quite nominal at 4s. 6d., there being practically no sellers.

CITRONELLA OIL.—Ceylon has attracted more interest of late, probably owing to the paucity of offers from that source, it being stated that cultivation of the grass as a catch-crop has decreased. The spot price of Ceylon is about 2s. 7d. per lb. and Java 4s. 10d. to 4s. 10½d.

CLOVE OIL is slightly easter. English distilled offering

at 20s, per lb.

CLOVES are slightly cheaper, with spot sales of fair

Zanzibar at 2s. 4d. per lb.

Cocaine.—Although coca-leaves were cheaper at the Amsterdam auction, the tendency of hydrochloride is

er owing to transport and labour troubles, makers ing from 35s. to 37s. 6d. per oz. ary 21 1,955 packages Java offered, weighing 107,761. With a quiet demand, 954 packages, weighing 99 kilos, sold, the total alkaloidal content being 659. The prices paid ranged from 25c. to 1174c. per kilo., the average unit being 58.10c., against 72.12c.

on December 31, 1919, was 3,518 packages.

OPPER SULPHATE is still in upward tendency, good in-

ies being heard of for export, and terms range from

to 50%. per ton f.o.b. Liverpool.

REAM OF TARTAR remains very firm at 290s, per cwt. the spot for 98 to 99 per cent. powder. Several hundred s are due from French makers on contract, but they

quite unable to deliver.

REOSOTE CARBONATE is temporarily scarce on the spot, rather dearer at from 37s. to 38s. per lb., but for ward delivery it can be bought at from 30s. to 31s.

'ARINA is quict, with sales of No. 1 Japanese at 39s. 39s. 6d., and January-March shipment at 38s. to 38s. 6d. cwt, c.i.f. Sweet potato-flour is 33s. 6d. spot and mary-March shipment 32s. 6d. c.i.f.

CORMALDEHYDE is dearer, importers quoting small reels at 300s. per cwt. on the spot, but for export busi-

s has been done at from 270s. to 280s.

GALLS.—Further sales of Persian blue have been made 160s., and with a growing scarcity of Chinese 200s. is

GLYCERIN.—The British refiners have raised their prices chemically pure by 57. per ton, the minimum quotant for five ton lots on contract being 1207. per ton ed.

GINGER has been selling at steady rates, with a scar-y of good sound Cochin quality, which is quoted at om 75% to 80%, and Calicut at 70% to 75%. Jamaica is ill being shipped to America and prices are firm.

Honey remains firm, and prices are on the higher level a fortnight ago. Jamaica has been selling at 97s. 6d.. de set Cuban 95s., and ordinary dull 87s. 6d. Australian quoted at 80s. and Californian at 100s. Arrivals are all, and shippers are less free in making consignments atil they know about what prices they will be paid.

IPECACUANHA is firm, fair Matto Grosso offering at 17s. Duyers in quantity at 16s. 9d.), Minas at 16s. 6d., and artagena at 15s. 9d. per lb,

JALAP.—Good, heavy Vera Cruz can be had at 3s. 3d.

er lb. on the spot.

JUNIPER-BERRIES are extremely quiet and easier, fair alian offering at 28s. per cwt. on the spot.

Kola.—At the spice auction 32 bags Grenada sold at 6d.

nd common mouldy at $4\frac{1}{2}d$. per lb.

Lead Compounds.—There is a general impression that op prices have been reached, while the possibility of ome downward revision is already talked about. There s a considerable amount of raw material to be digested, and the price has weakened considerably.

LEMON OIL has further advanced, but prices are very irregular, and in secondhands small parcels have changed hands at from 7s. 6d. to 8s. per lb., but first hands quote 9s. to 9s. 6d. per lb., and to arrive at 10s. to 10s. 6d. c.i.f. American buying in Sicily appears to be responsible for the higher prices. Spanish lemon oil (without analysis) is quoted at 7s. 6d. per lb. on the spot.

LIME OIL - West Indian distilled has sharply advanced owing to American demand, spot holders in several instances having cleared their stocks, from 4s. 3d. to 5s.,

and probably even more, having been paid.

LIQUORICE JUICE.—Finest Spanish block guaranteed 80 per cent. soluble in cold water is offered at 300s. per

LIQUORICE-ROOT is extremely quiet, but good Italian decorticated of good quality is scarce at about 190s., with common offering at 170s. Natural is offered at 60s, to 65s. per cwt., and cut natural at 70s.

MACE.—At auction 118 packages West Indian offered, and practically all sold at about 1d, per lb, higher prices, including good at 1s. 8d, to 1s. 9d.; fair, 1s. 6d. to 1s. 7d.;

ordinary, 1s. 4d. to 1s. 5d.; broken, 11d. to 1s. 1d.; and pickings at 8d, to 10d.

MANGANESE PEROXIDE.—The market is rather encumbered with supplies either held in warehouse or on the way from the Caucasus, and cheap sales down to as low as \$40 per ton were recently effected for shipment to America. Holders, however, in most cases still demand high prices to over \$60 c.i.f. United States, but the general demand from chemical centres is spasmodic.

MENTHOL is quiet and easier, with spot sales of Kobayashi-Suzuki at 73s. to 72s. 6d. per lb. Arrivals comprise 2,250l. from the United States.

METHYL SALICYLATE is from 3d. to 6d, per lb. higher, importers quoting 5s. 3d. to 5s. 6d. per lb., but the outlook is for a further advance to 6s. in a short time, this being the English makers' price.

Milk-sugar is firm, and a very fair quantity of American has been sold at 215s, per cwt. on the spot for U.S.P. quality. Some Californian is offered at a lower price, but the quality is not B.P.

MINT OIL.—Small sales of Kobayashi-Suzuki have been made at 16s. 72d. per lb., indicating a slightly easier market, sellers on Wednesday quoting 16s. 6d.

NUTMEGS.—At auction West Indian were rather easier,

243 packages being offered and sold.

OILS (FIXED).—Linseed has been sold up to 109s. on the spot and at 106s. naked in Hull. Crude Rape is firm at 110s, and refined at 116s, net naked, ex mill-Cottonsecd is also firmer at 115s. for Egyptian crude in London and edible 125s. to 130s. net, naked, ex mill. Ceylon *Coconut* is 116s. afloat and 118s. for shipment; Cochin affoat is 118s, and for shipment 130s, per cwt. Wood oil has been sold at from 130s. to 142s. per cwt., as to quality. Lagos Palm has been sold at from 101s. 6d. to 102s. and softs at 96s. 6d. per cwt, in Liverpool. Palm Kernel is 45s. 6d. in Liverpool.

Opium remains firm, good Turkey druggists offering on the spot at from 20s. to 21s. per lb.; Persian is nominal and without business at 458.

ORANGE OIL.—Export orders for America have given this market a fillip, and with a growing scarcity of spot supplies of Sicilian sweet, prices have advanced to about 28s. to 30s., while to arrive 30s. to 32s. c.i.f. is quoted.

PEPPER has been quiet and easier, with sellers of fair black Singapore at $11\frac{1}{4}d$. per lb. on the spot, January-March at 11d. c.i.f. (paid), and February-April at 11d. c.i.f. (paid). Lampong on the spot is 10½d. and January-March 10½d. c.i.f. Tellicherry is 1s. 1d. and Alleppy 11d. spot, at which sales have been made. White pepper is lower, with spot sales of Muntok at 1s. $5\frac{1}{2}d$. and January-March at 1s. 54d. c.i.f. Singapore is 1s. 5d. spot and January-March 18. $4\frac{1}{4}d$. c.i.f.

Petroleum has been advanced by 4d, per gallon to 2s. 1d. for ordinary American and 2s. 2d. for waterwhite.

PHENACETIN is firmer, with fair spot sales at from 14s. 6d. to 15s. per lb., but at the close 15s. to 16s. more represents current values. The outbreak of influenza in the U.S.A. is responsible for the advance.

PHENAZONE has shown more demand, with spot sales at from 25s. to 26s. per lb.

Phenolphthalein is again easier, offering at from 11s. .

to 11s. 6d. per lb. on the spot.

Potash Permanganate remains firm, with no improvement in spot supplies, prices varying from 4s. 9d. to 5s.

QUICKSILVER .- While the market has shown considerable irregularity, its tendency has been sharply downward, chiefly owing to freer offers of second-hand parcels and the keen competition of Italian landed on this side, and also for shipment direct to India on comparatively cheap terms-viz., 221. per bottle, cost and freight, net. is about equal to 221. delivered in this market, less 3 per cent. Leading importers, however, are practically out of the market, and profess to have only limited supplies waiting for disposal for the present. It is reported that offers have also been made this week from Austrian sources. As compared with a week ago, prices show a decline of 1l. 10s. per bottle.

QUILLAIA is quiet at from about 82s. to 82s. 6d. per cwt, in Liverpool, and the value of crushed on the spot is about 110s.

QUININE.—Among the arrivals are 180,000 oz. from Java and 12,528 oz. from Holland.

Senna.—The arrivals comprise 1,219 bales from Tuticorin.

Shellac has been inactive and lower, with usual standard TN Orange quality offering at 875s. per cwt., AC cakey at 650s., and GAL at 630s. The market for futures has been largely nominal, especially as regards March de-livery, and for May the sales include TN at 810s. to 795s. to 730s.; 795s. to 730s.; these figures representing a decline of about 70s. to 80s. per cwt. Shipment market is quiet and nominal. At auction on Tuesday 150 cases offered without reserve and sold at very satisfactory prices, including fair TN Orange, slightly matted 830s. to 835s. to 822s. 6d., ordinary reddish matted 822s. 6d. to 827s. 6d. to 805s., matted to block 785s. to 802s. 6d., 100 cases AC Garnet sold, comprising dull, hard AC block at 570s. to 590s., and fair, bright GAL cakey to blocky 600s. to 612s. 6d. In Prize 50 cases good to fine bright Second Orange (E & O) sold at from 875s. to 922s. 6d. 135 bags Keerie lac (shellac refuse) sold at from 51s. to 74s. per cwt. The shipments (including button lac) from Calcutta during the first half of January were 1,700 cwt. to the United Kingdom, 21,000 cwt. to U.S.A., and to the Continent nil, making a total of 22,700 cwt. for the fortnight.

Salicylates are steady and unchanged, with a scarcity of salicylic-acid powder (B.P.) for prompt delivery in quantity, the quotations being from 3s. 3d. to 3s. 6d. Sodium salicylate powder is from 4s. to 4s. 3d. as to quantity, and crystals are 4s. 6d., and slightly less for round lots.

SALOL is easier at from 6s. 3d. to 7s. per lb. on the spot.

Senega, valued at 5,589l., has been imported in London from the United States. The spot price is about 11s. 6d., and as there is now a scarcity in the U.S.A., where the price is equal to about 13s. 9d., the possibility of reexporting from this side is talked of.

Soda Hyposulphite.—Pea crystals are scarce, the English makers appearing to be sold out of this description. Dealers quote 24s. to 25s. per cwt.

STARCH PRODUCTS .- American maize-starch powder is quiet at 40s. to 45s. per cwt. in bags on the spot. Ricestarch crystals are quoted at 85s. to 90s. per cwt. in bags on the spot.

Sugar.—The Royal Commission on the Sugar Supply announces that 120s. per cwt., duty paid, ex store, less 1½ per cent. discount, has been fixed as the maximum "reasonable" price for all privately imported or "free" sugar for sale to or resale by manufacturers from January 26, 1920, until February 21, 1920, inclusive. Sugar imported by the Royal Commission will be issued Sugar Imported by the Royal Commission will be issued for manufacturing purposes at the following prices: 66s. per cwt. against jam manufacturers' vouchers (brown); 110s. per cwt. against all other manufacturers' vouchers (blue). The maintenance of this latter prices will be dependent upon the course of prices in the world's markets. Issues against manufacturers' vouchers will continue to be made at the following rates: Jam manufacturers' vouchers (brown), 300 per cent. of face value; other manufacturers' vouchers (blue), 200 per cent. of face value.

TARTARIC ACID is dearer. Spot stocks are extremely limited, especially crystals, which appear to be unobtain-English makers appear to have disposed of their output for the whole of the year, and a considerable business has been done for forward delivery with Continental makers. On the spot from 3s, 6d, to 3s, $6\frac{1}{2}d$, per lb. is quoted, and a good business has been done at from 3s, $5\frac{1}{2}d$, to 3s, $6\frac{1}{2}d$.; for June delivery manufacturers quote 3s. 41d.

THEOBROMINE SODA SAL is easier, importers offering at 27s. per lb. on the spot.

TRAGACANTH.—It has been confirmed that the Persian crop this season will be about half the normal quantity, so that consumers will have difficulty in filling their

requirements later on. Good white descriptions are much wanted, but very scarce.

TURPENTINE has continued active at fluctuating prices, which on balance show an advance of about 6s. per cwt. American on Wednesday closing at 190s, per cwt, on the

VERMILION.—Makers have reduced their prices to 6s. 4d. to 6s. 5d. per lb. net, according to quantity.

German Drug and Chemical Markets.

With the best wishes and a prayer for the New Year, With the best wisnes and a prayer for the New Year, it may at last bring the so necessary peace intra and extra muros, a Hamburg wholesale dring house informs their clients that the Chambers of Commerce of Hamburg and of Bremen in their reports state that the general outlook for the coming year is a very black one indeed, and express the opinion that there seems no prospect of any approximate invarious property in the existing unsatisfactory condiexpress the opinion that there seems no prospect of any appreciable improvement in the existing unsatisfactory conditions in the near future. The insufficient supply of foodsuffs clothing, dwellings, and coal which has to be borne by the German people brings in its train in consequence of their scarcity increases in prices and in wages, and thereby a further depreciation of the German currency: consequently the difficult problem of improving the rate of exchange still remains insoluble. Contrary to custom, business in the drug market lost nothing of its briskness during the holidays, and as long as the shortage of raw materials persists the demand for goods will not decline. Prices are quoted in marks per kilogram. marks per kilogram.

ACFITC ACID (80 per cent.) is obtainable at m.7.80, inclusive of duty but exclusive container. The demand has recently increased.

BENZALDEHYDF, almost free from chlorine, for foodstuffs, has been in great demand at m.90 owing to the fact that manufacturers are behindhand with their supplies.

Benzoic Acid has advanced to m.62 for the same reason. Boax figures among the products most in demand, and largo orders are coming in from the now reawakening industrial establishments. The orders coming in for daily supplies from druggists also increase the demand, so that it now commands in.12 for crystals and in.13 for powder.

BORG ACID.—In consequence of large orders from works it is becoming very scarce, and fetches m.20.50 for crystals and powder. New supplies will command higher prices.

CAFFEINE (pure) has advanced to m.450, and is in great

demand from abroad.

CITRIC ACID.—Manufacturers have almost exhausted their stocks, and in spite of the season the demand for pharmaceutical and for technical purposes is increasing, so that the price has advanced to m.110. Prices are firm, and a further rise is expected.

COUMARIN.-Large quantities have recently not

COMMRIN.—Large quantities have recently not been in demand; small amounts have been quoted at m.550.

CREAM OF TARTAR.—99/100 per cent, supplies are scarcely obtainable from manufacturers owing to the dearth of raw materials. It can be supplied for prompt delivery at m.42.50.

Dextrix.—The demand has increased while supplies have declined, so that white quality now fetches m.15 and yellow

M.14 in original sacks.

GLYCERIN, white, 23°, is likely to become scarce, since manufacturers are experiencing difficulties in filling orders on hand.

HELIOTROPIN has been sold at m.575.

MENTHOL.—Cryst. has reached the enormous figure of m.1,250, and is still lying abroad awaiting delivery. Recryst. has advanced to m,1,280.

MILK-SUGAR.—Supplies are very scarce, and it is difficult to obtain, while being in great demand. Prices on application.

PEPPERMINT OIL.—Japanese has exceeded m.450, the price paid for double rectified, and new supplies will command an even higher price, although the Japanese oil is less appreciated by consumers.

Saponin.—Depurat, has been largely purchased of late in

view of the reduced price, but owing to the advance in price of quillaia the price has increased now to m.147.50.

Technical, brown, remains at m.35.

SODIUM BEXZOATE.—Owing to scarcity of raw materials manufacturers are short of supplies, and it has been quoted by dealers at m.55.

by dealers at m.55.

STAR ANISE OIL is firm at m.140.

TARTARIC ACID.—Owing to scarcity of stocks consequent on a growing demand the manufacturers are unable to fill orders and are compelled to import from abroad, while at the same time foreign countries are also in the market for tartaric acid. Prices are very firm: crystals m.65, recorder w.66.

powder m.66, and granular m.64.

Terpinfol has advanced to m.115.

Vanillin.—The demand shows an enormous increase, while supplies from manufacturers are practically insignificant.

Arrivals of Drugs, Chemicals, and Allied Produce.

Cinchona (E.I.), 4

bls.
Coca-leaves (N.Y.),
11 bls.
Copaiba (N.Y.), 20

Cubebs (B'bay), 32 bgs. Galls (Smyr.), 42

Gentian (Fr.), 21

bls. Guaiacum (N.Y.), 12

Jalap,(N.Y.) 65pkgs., (Hamb.) 80 bgs. Liquorice (Smyr.),21

Liquorice paste (Smyr.), 500 cs. Menthol, (N.Y.) 20

cs., (Denm.) 11 cs. Myrrh (B'bay), 48

bgs.
Opium, (Tky.) 454
es., (B'bay) 200
eskts.
Patchouli leaves

(S'pore), 15 bls. Sarsaparilla (N.Y.),

42 bls. Senega (N.Y.), 70

bls. Senna (Tinn.), 106

151 bgs. Tonka beans (N.Y.),

bls. Strophanthus(Beira),

ecacuanha (P. Swet'ham), 20 bgs.

kgs. 3 cs. Ipecacuanha

he following products have arrived at the ports named:

fanuary 6 to 12). bon black (N.Y.), 02 cs. ein (N.Z.), 99 eks. mieal products, etc.: eetanilide (N.Y.), 25 brls.
25 brls.
enzonaphthol(N.Y.),
23 kgs.
corate, calc. (U.S.),
975 bgs.
rromides: (Hamb.), romides: (Hamb.), ammon. 10 cs., (N.Y.) 20 cs.; (Hamb.) potash, 20 cs.; (N.Y. 20 cs.; (Hamb.) soda, 20 cs., (N.Y.) 20 cs. (R'dam), 201 cs. 201 cs tartrate (Gre.), 1,000 bgs. reosote (N.Y.), 3 ebys. ormicaeid (R'dam), 338 cbys. Heliotropin (N.Y.), 3 Hexamine, (Antw.) 5 cks., (N.Y.) 10 ydroquinone(N.Y.), 10 cs.

Iron, reduced (N.Y.),

12 kgs.

chlor. Magnes. Chic. (R'dam), 91 cks. Methyl. sal. (N.Y.),

2 brls. Turmeric, (Suez) 404 bgs., (B'bay) 990 Methyl. Sec. 20 cs.
Milk sugar (N.Y.),
474 brls.
Potash, (N.Y.) 10
drms., (Tky.) 447 bgs. Witch hazel ex (N.Y.), 55 brls. (N.1.), 55 bris.
Drugs, medicines, ctc.:
(N.Y.), 504 pkgs.,
364 cs.; antiphlozistiue (N.Y.),
1,040 cs.; bovinine
(N.Y.), 200 cs.; danbris. Potassium (R'dam), 50 cs. Pot. ehlor. (Antw.), 200 bgs.
Pot. entor. (Antw.),
200 bgs.
Pot. cyanide (Amst.),
14 cks.
Pot. pruss. (Amst.),
10 eks. (N.Y.), 200 cs.; danderine (N.Y.), 11 cs.; glaxo (N.Z.), 2,660 tlns, 6 crts.; glycothymoline (N.Y.), 1,600 bxs.; kolynos liq. (N.Y.), 19 bxs.; liniment (N.Y.), 100 cs.; ointments (N.Y.), 2 cs.; pills (N.Y.), 2 cs.; plasters (N.Y.), 43 cs.; Saltpetre (Amst.), 40 Soda butyrate (N.Y.) Soda, caustic (N.Y.), 23 cs. Tamic acid (N.Y.), (N.Y.), 42 cs.; pills (N.Y.), 72 cs.; plas-ters (N.Y.), 43 cs.; sal hepatica (N.Y.), 35 cs.; vanishing cream (St. Johu, N.B.), 1,000 cs.; vapo-cresoliue(N.Y.), 136 cs.; vasoline Taime acid (N.1.), 14 brls. Tartar, (Fr.) 180 bgs. 48 cks., (Gre.) 58 brls. Tartaric acid(Antw.),

18 brls.
Wine lees, (Sp.) 236
bgs., (Gre.) 1,000
bgs. oxide (N.Y.),

Ziuc oxide (N.Y.), 400 brls. Drugs, crude, etc.: herbs (Fr.), 14 pkgs.; roots, barks and herbs (N.Y.), 214 pkgs., roots (Ch.), 100 bls. Aloes, (N.Y.) 50 cs., (B'bay) 50 kgs. Balsam tolu (N.Y.),

Bayberry bark (N.Y.), 10 bgs. Benzoin (Penang), 121 cs.

Calumba, (Zan.) 126 hgs., (B'bay) 1,126 Camphor (Ch.), 36

Cantharides (S'hai), 47 cs. Cardamoms, (Calic.) 27 cs., (B'bay) 15 cs., (seed) 5 cs. Chamomiles (Autw.),

5.583 bgs. Egg products: (Ch.) albumen, 327 cs.; whole, 101 cs.; yolk, 345 cs. 3.232 pkgs. 421 cks. 158 brls. Gelatin (Antw.), 60 bgs. Glucose (Antw.), 38 Glucose (Antw.), 38 brls.
Gums, resins, etc.: acacia (P. Sudan), 4,620 bgs.; copal (Zan.), 129 pkgs. (S.S.) 175 cs., (B'bay) 22 cs.; damar,

vapo-cresoliue(N.Y.), 136 cs.; vaseline (N.Y.), 1,632 cs.

Dyes, dyeing and tunning materials, etc.: dyes, aniline, (N.Y.) 37 cs. 19 brls., (Belg.) 38 pkgs.; anthracene (Antw.), 100 cks.; dyewood ext. (N.Y.), 560 pkgs. 25 brls.; hematin (N.Y.), 30 brls.; myrabolans (E.I.), 3,174 bgs.; valonea (Smyr.), 3.583 bgs.

3,583 bgs.

(Holl.) 281 bxq. 365 es., (S.S.) 125 es.; olibanum (B'bay), 68 onbanum (B'bay), 68
cs.; resin, (Port.)
333 cks., (N.Y.) 593
brls., (Fr.) 725 cks.;
tragacanth, (C'ople)
56 pkgs. 9 cs.,
(B'bay) 120 cs.
Honey, (N.Y.) 50 brls.,
(N.Z.) 19 cks.

(N.A.) 19 cks. Hops, (Hamb.) 925bls... (R'dam) 807 bls... (N.Y.) 1,451 bls... (Antw.) 683 bls... (Denm.) 110 bls... (St. John, N.B.) 161 bls. bls. Lead, white (N.Y.), 159

cks. Lithopone (Amst.), 51

Malt ext. (N.Y.), 25 brls. 50 × ½ brls. 50 × ½ brls. 200 cs.

Molasses (N.Y.), 50 cs. Olls, essential: (N.Y.)

ils, essential: (N.Y.) 16 cs., (S'pore) 5 cs.; geranium (Fr.), 14 pkgs.; peppermint (N.Y.), 5 cs.; sandal-wood (B'bay), 120 cs.; sassafras (N.Y.), 4 cs.; turpentine (Port.), 2,376 cs.; wormseed (N.Y.), 9 cs.

(Port.), 2,376 cs.; wormseed (N.Y.), 9 cs.
cils, fixed: coconut.
(N.Y.) 171 pps., 49 pkg, 300 brls., (Jp.) 4,474 cs.; fish (Ch.), 1,155 cs., (hardened) (Ch.), 651 cs., (Jp.) 500 cs.; groand-nat (Ch.), 32 drms.; herring (Ch.), 755 cs.; lin (Belg.), 286 cks.; olive (Fr.), 50 cks.; rape (Ch.), 130 cs.; shark, (Jp.) 1,000 cs., (Ch.) 584 cs.; soya, (R'dam) 1,843 brls., (S'hai) 300 cks. 41 drms.
1,121 cs.; sperm, (Ch.), 441 cs.; tea (Ch.), 1,000 cs.; whale (N.Z.), 50 cks.; whod, (Ch.) 375 cks.
630 cs., (S.S.) 6 cs.
Petroleum.jelly (N.Y.), 512 brls. 1,087 cs.
Seeds: almonds, 36 cs.

512 brls. 1,087 cs.
Seeds: almonds, 36 cs.
100 bgs.; apr'cot
kern. (Ch.), 132 bgs.,
canary, (S. Amer.)
1,704 bgs., (Tky.)135
bgs., (Amst.) 1,539
bgs., (Fr.) 617 bgs.;
cashew, (N.Y.) 50
cs., (B'bay) 158 cs.;
copra, (S. Amer.) 59 copra, (S. Amer.) 59 bgs., (S.S.) 1,330 bgs.; bgs., (S.S.) 1,330 bgs.; cotton, (E. Af.) 1,600 bgs., (Antw.) 1,172 bgs., (E.I.) 4,480 bgs.; ground-nuts. (Zan.) 120 bgs.; (Antw.) 350 bgs.; lin. (P. Said) 77 bgs., (Ch.) 286 bgs., 2,722 bls., (C'ople) 150 hgs. (E.I.) 6,942 bgs.; millet, (Fr.) 948 sks., (B bay) 667 bgs.; (B'bay) 667 bgs.; mustard (Denm.),300 bgs.; rape (S'hai), 3,351 bgs.; sun-flower (N.Y.), 840

bgs. Soy (Ch.), 300 pkgs Soy (Ch.), 300 pkgs.

Spices: cassia (Ch.),
1,704 bls. 200 cs.
775 pkgs., (buds) 200
cs.; chillies (Be'ra),
50 bgs.; cinnamon
(Suez.), 60 bls.;
cloves, (Zan.) 1,968

bdls., (E.I.) 85 bls., (E. Af.) (stems) 1,619 bls.; ginger (B'bay), 250. bgs.; mace, (E.I.) 25 cs., (W.I.) (E.I.) 25 (S., (W.I.) 162 pkgs.; nutmegs (S.S.) 20 bgs. 443 (S. 41 brls.; pej per (E.I.), 5.051 bgs.; pimento (Antw.), 68 Sponges (Gre.), 970

Sponges (Gre.), 970 pkgs.
Starches, ctc.: dextrin (Jp), 20 bgs.; farina (Jp.), 1,355 bgs.; maize (N.Y.), 6.641 bgs., 11,220 pkgs.; rice (Jp.), 140 bgs.; wheat (Jp.), 900 bgs.
Vanilla (Finl.), 6 cs.
Wax, bees' (E. Af.), 187 pkgs. 103 blocks, 49 bgs. 80 bdls.
Wax paraffin (N.Y.),

Wax, paraffin (N.Y.), 1,506 bgs. 1,947 brls.; (scale) (N.Y.), 6,008 brls.

Liverpool (January 5 to 10). Barytes, (Antw.) 200 bgs., (It.) 180 bgs. Carbon black (N.Y.), 55 cs.

55 cs.
Chemical products:
Argol (It.), 99 cks.
Boric acid (It.), 60
cs. 341 brls. Calc. borate (S. Amer.), 5,641 sks. 1,568 bgs.

Nickel oxide (N.Y.), 226 brls.
Soda nit. (Chili),
75,079 bgs.
Sulphur (Catania),
7,800 bgs. 180

brls. Tartrate (Sp.), 194

bgs.
Zinc oxide (Antw.),
200 brls.
Cinnamon (B'bay),
224 bgs.

Copal. gum (Antw.), 874 bgs.

Drugs, crude: roots and herbs (N.Y.),

197 pkgs. Cinchona (Cristobal),

Chichona (Chstobar), 25 bls., (Molleudo) 635 bls. Jaborandi (Maran-ham), 10 bls. Liquorice (Sic.), 7 cs. Liquorice root (Sic.),

10 bgs. Quillaia (Chi'e), 132 bls. 55 pkgs. Sarsaparilla (Cristo-bal), 6 bls. Dyes, dyeing and tar-

ning materials, etc., aniline dyes (Antw.), 32 cs.; cutch (E.1.), amine dyes (Altw.), 32 cs.; cutch (E.l.), 1,750 bxs.; extract. tanning (N.Y.), 41 cs. 20 brls. 435 bgs.; fustic ext. (N.Y.), 100 bxs.; logwood ext. (U.S.), 149 brls.; myrabolans (E.1.), 839 pkgs. 1,240 bgs. : (crushed) 4,058 pkgs. 660 bgs.; orchella (Cristobal), 442 bgs.; quebracho (Antw.), 1.275 bgs.; sumac, (It.). 150 bgs.
Egg, yolk (N.Y.), 259 cks.
Glucose (N.Y.), 1,128 brls. 1,200 kgs.
Glycerin (It.), 694 drms.
Houcy (S. Amer.), 983

Houey (S. Amer.), 983 pkgs. 200 kgs. 1,305 bris. 32 × ½ bris. Isinglass (S. Amer.), 13

brle. Lead, white (N.Y.), 986 kgs. 126 cks. Lithopone (U.S.), 1,120

brls.

Molasses (N.Y.) 999
brls., (W.I.) 2,000
tons .

Oils, essential: not described (Sic.), 6
cs. 20 × ½ cs.; brls.

cs. 20 \times $\frac{1}{2}$ cs lemon (Sic.), 18 cs.

Oils, fixed: coconut (N.Y.), 359 brls., (acid) 455 brls.; ground-nut (R'goon),

ground-nut (R'goon), 1,556 cs.; palm, (Antw.) 25 cks., (W. Antw.) 25 cks., (W. Arto-gound pelly (N.Y.), 90 brls. Seeds: almonds, 575 bxs.; canary (N.Y.), 200 bgs.; castor (S. Amer.), 250 bgs.; copra (W. Af.), 1,772 sks.; cotton, (E. copra (W. Af.), 1,772 sks; ; cotton, (E. Af.) 1,920 bgs., (S. Amer.) 5,070 bgs. 4,252 sks., (E.I.) 31,279 bgs., (W.I.) 406 bgs.; lin (E.I.), 592 bgs.; palm kern. (W. Af.) 16,414 bgs.; rape (Antw.), 12 brls. tarches, etc. : dex-

rape (Antw.), 12 brts. Starches, etc.: dex-trin (N.Y.), 1,380 bgs.; maize (N.Y.), 1,000 bys. Talc. (It.), 200 bgs. Wax, bees', (E. Af.) 84 bgs., (S. Amer.) 502 pkgs. Wax camanba (S.

carnauba Wax, Amer.), 1,490 bgs. Wax, paraffin, (U.S.)
709 brls., (R'goon)
3,600 bgs., (scale)
350 brls.

Goole

(January 3 to 8).
Barytes (R'dam), 215
cks.: coconut (R'
dam), 600 brls, olive
(Antw.), 141 brls.

Hull

(January 5 to 9). Herbs (Trieste), 15 bls.; lactic acid (Amst.) 10 cks.; nitrate (Fr.) 47 cks.; seeds; almonds, 335 bgs.; caraway (Amst.), 20 bls.; jamba (Antw.), 3,266 bgs.; line 51. Jambi (Antw.), 3.266 bgs.; lin.; (Antw.), 327 bgs.; squill (Trieste), 70 brls.; sulphur oil (Bari), 100 brls.; sumae (Sic.),150 bgs.; tartaric acid (Bari), 100 brls.; zinc white (R'dam), 40 brls.

Marchester

(Dec. 24 to Jan. 2). (Dec. 24 to Jan. 2).
Arrol (It.), 111 bgs.;
barytes, (U.S.) 80
brls., (Holl.) 55 cks.;
calabar beaus (W.
Af.), 134 bgs.; carbon black (U.S.),
1.396 cs.; dextrin
(U.S.), 4,080 bgs.;
dyes (Holl.), 2,352
pkgs. 383 cs. 112
brls.; emulsion
(U.S.), 5,928 bxs.;
farina (Holl.), 3,725
bgs.; ground-nuts, bgs.; ground-nuts, (W. Af.), 12,355 bgs.; (W. Al.), 12,355 ggs.; gums (Fr.), 32 bgs.; herbs and roots (It.), 31 bls.; lavender oil (Fr.), 17 cks.; lead, white (U.S.), 120 pkgs.; magnes, chlor,(Holl.), 110 cks.; mineral 110 cks.; mineral white (It.), 200 bgs.; molasses (W.I.) 2,000 tons orris 2,000 tons orris (It.), 13 bgs.; palm kernels (W. Af.), 72,580 bgs. 1,075 tons; palm oil (W. Af.), 119 cks.; phos-phorus (Can.), 25 cs.; resin, (Sp.) 1,845 brls., (Fr.) 28 cks.; soanstone orris 1,845 brs., cks.; soapstone (It.), 1,600 brs.; soda acet. (Belg.), 300 cks.; soda nitrite (Fr.), 24 cks.; soda phos. (Belg.), 54 cks.; talc., (Fr.) 200 bgs., (It.) 150 bgs.; tartar (It.), soax, para-200 bgs., (ft.) 150
bgs.; tartar (ft.),
8 brls.; wax, paraffin (U.S.), 1,005
bgs.; zinc oxide
(Belg.), 80 brls.

(January 5 to 9). Acetic acid (N.Y.), 233 cetic acid (N.Y.), 255
brls.; balsam tolu
(N.Y.), 6 cs.; carbon
black (N.Y.), 681
cs.; extract, tanning
(N.Y.), 20 brls.;
formaldehyde (N.Y.), 196 brls.; glucose (N.Y.), 8,640 brls.; lithopone (R'dam), 56 cks.; sperm oil, (U.S.), 598 brls.; sunflower seed(N.Y.). 285 bgs.; tanni acid (N.Y.), 10 cs. vaseline (N.Y.), 3 brls.: wax, paraffin (U.S.), 795 pkgs. (scale) 800 brls.

Southampton (January 5 to 10).

(January 5 to 10).

Casein (Fr.), 137 pkgs.: kainit (R'dam), 300 tons; tartar (Fr.), 129 pkgs.: wattle bark (Natal), 2,161 pkgs., (ext.) 2,826 pkgs.; wax, bees' (Natal), 29 bgs.

Dominican Exports, 1913 and 1918.

Among the exports from Dominica were the following for the year 1913 compared with 1913:

·	1913		1918	
	Quantity		Quantity	
Bay-leaves	_	£ 371	_	£ 33
Citrate of lime cwt.		17,026	003	2,744
Cocoa ,,	9,409	24,389		14,735 11,904
Limes, fresh brls. Lime-juice, raw gals.	336,728	39,297 15,082		74,747
Lime juice (conc.) ,,	163,628	61,191		59,596
Essential oils ,,	_	10,74੪		15,482



Chemists' Retail Price Lists.

SIR,—We would craw the attention of chemists to a discrepancy in Mr. Charles Philip's "Standard" Price List—a discrepancy which in these profiteering days might have unpleasant results to chemists generally. We refer to his retail price for 1 oz. of ess. menth. pip. 1 in 10 (foreign oil), 1s. $11\frac{1}{2}d$., and 1 oz. of sp. menth pip. (foreign oil), 2s. $3\frac{1}{2}d$. We have been in communication with Mr. Philip on the matter, and his explanation is that the drug-houses' charge for ess. menth. pip. is too high; he does not question their charge for sp. menth. pip., an identical preparation. We contend that, whatever Mr. Philip's private opinion may be us to the charge made by the wholesale houses, if he accepts their list price for one article he should do so for every item. Perhaps other chemists will express their opinion.

Colchester. Yours faithfully, BEVAN & STOOKE.

SIR .- To some of us who have been behind the counter for fifty years or more and have grown up in the belief that chemists' prices should be like the laws of the Medes and Persians (which alter not), the issue of the London Chemists' Retail Price List is indeed the beginning of a revolution in pharmaceutical polity. strict adhesion to a scientific costing system for the business of the pharmacist at once cancels every iota of its claim to have a professional side, and places the calling on the same plane as a grocer's or general-store dealer's. The anti-profiteering statute and the highest Law Court have given the same decision. Perhaps the sooner we realise this the better, if we adjust ourselves to it. The modus operandi is simply to hand over the sale of poisons and the dispensing of medical prescriptions to medical men, dissolve the Pharmaceutical Society, form a trade union, and apply ourselves to business. The lost kudos may be more than balanced by a better banking account. Pharmacists as a body have no enviable record for acting together on any important subject, therefore we cannot expect them to fall in with the above logical argument. There is much to be said for a costing system for retail prices, but for the business of the pharmacist it must not be too strictly uniform (as in the list published for January). It is a moot point, even if attainable, whether uniform prices are desirable for such a calling as ours. The fixing of prices has not been a mere matter of caprice. The costprice has, of course, been taken into consideration, but it is only one of the factors, and frequently not the most important. There are many other conditions and considerations which affect the result, and though they cannot be explained here, are fully understood by most The comparatively settled prices we have inherited are the result of the long experience and practical common-sense of our pharmaceutical forefathers on the whole just to the public and satisfactory to ourselves. The scientific method proposed will require alterations every month and will be a source of constant irritation on both sides of the counter. The list before me says I need have no fear of profiteering if I make a profit of 1s. 6d. upon the sale of an ounce of camphor, and then suggests I should sell a drachm of prussic acid or liquor arsenicalis for one penny. The first transaction strikes me as approaching robbery, and the other as simply idiotic: they both yield a scientific percentage. There is one more item in the price-list I cannot overlook and strongly protest against. It is that the compilers perpetuate the baneful fallacy that Burroughs Wellcome & Co. issue a retail price-list. They do nothing of the kind. They issue a price-list to the trade and take off certain discounts, but the retailer is free to charge whatever price he chooses,—if he prefers to grumble and charge 20 per cent, only, let him be just and bear his own burden.
Upper Tooting.

John lych JOHN INGHAM.

The New Insurance Dispensing Terms.

SIR,-It is to be regretted that "Investigator" is not only wrong in his figures, but also in his facts and his conclusions. I had already written to suggest that he would find it difficult to prove that the average dispens ing-fee exceeds the fee for an extemporaneous mixture but his own correction anticipated mine. It may be stated, however, that the tendency, as shown by the statistics for London, Middlesex, and other areas, is for the average dispensing-fee to be lower than the fee for an extemporaneous mixture. Apart from this, "Investigator" stated in his article that there had been not increase in the panel chemist's remuneration in respect of the part of the panel of t professional services since 1916, but that the allowance in respect of establishment charges had been increased to meet higher working expenses. Both of these statements are incorrect, as what he terms the "pure dispensing fee" had in each case been increased by 1.2d. since 1916 while the allowance for establishment charges remained at the original figure. It is quite a mistake to assume that the war bonus of 1.2d, was an addition to meet higher working expenses; it was actually a temporary addition, or an accumulation of successive temporary additions, to the payment for professional services, in tended to meet the increased cost of living, and reference to the new terms for 1920 will show that the 1.2d. specifically to be continued while the cost of livin remains at its present high level. I fear "Investigator is also wrong in his assumption that the original establish ment allowance of 0.8d. per prescription is permanently increased to 1.2d. by the new terms for 1920, as the Ministry of Health remains unconvinced that there is any ground for increasing this allowance. The origina The original dispensing-fee for an extemporaneous mixture is increased from 2.0d. plus 0.8d. establishment charge to 4.6d. 0.8d. establishment charge, and I doubt if there is the remotest prospect of any further addition to the fee on account of the establishment charge. As a matter of fact. it is now incorrect to speak of an establishment charge. the dispensing-fee being understood to cover payment for professional services and all incidental expenses except the cost of drugs, etc. The facts generally are against "Investigator" when, reterring to the new terms for 1920, he states that "Not only... do chemists for the first time get an increase on pure dispensing-fees, but they are offered a permanent increase on the original establishment charge."

Yours faithfully JOHN HUMPHREY.

SIR,-Panel pharmacists are already beginning to realise that the concession in fees for Insurance work is probably a left-handed gift; the North London Association points out that assistants object to the rota (C. & D., Jan. 24, p. 69) for fear of a return to the old hours of work, and with this feeling I can sympathise. When I was a junior the pharmacy was opened at 8 A.M. and closed at 10 P.M., and 2 P.M. on Saturdays: meals were taken on the premises; half-holidays were a matter of special request, and only granted on very ex-ceptional occasions; and Sunday work was taken alternately all day. Between that time and the present there is a big contrast, and it is a state of affairs which none of us wish to return to; but if the Ministry of Health insist on the rota, as there is little doubt they will, it will mean an alternative of doing the work oneself or of paying one's assistants double rates for overtime. which, if we are confined to dispensing only after hours, will not be a commercial proposition. In districts where there are a number of chemists the rota would take some time to complete the circle, but in a small town, with only two or three shops, it would be a great tie if insisted In this neighbourhood there would be six panel pharmacists to take their turn, and if we took a week each. including Sunday and early-closing day, it would not be such a great hardship; and in this case I should endeavour to do this duty personally, conscious of the fact that for the five ensuing weeks I should be completely free from all late work. If the eight-hour day becomes law shops will probably be closed compulsorily at 6 P.M. and only the sale of medicines allowed after that hour, as at present after 8 P.M., but, as the panel patient is

ly able to attend at such an hour, it is possible that foresight born of knowledge is responsible for the usion of the rota in the terms for 1920.

Yours faithfully,

ONCE A JUNIOR. (165/36.)

More Burdens.

IR,-Just to hand two circular-letters, one asking a nation, the other stating that wholesale houses have ned forces to charge chemists a proportion of increased riage on all proprietary articles. From the tone of this cular-letter the wholesale houses are putting a poor e on at the profits they are making, while the letter ing a donation shows that these same wholesale houses o are crying out, and putting part of the burden on e shoulders of the retailers, are yet able to give dona-ns varying from 51., 101., to 201. to a testimonial fund. Charity," it is said, "begins at home." In these rd times for the retailers, would it not be well if wholeers, instead of putting on 2d. booking-fees, and prortions of railway carriage, etc., were to shoulder these rdens and cut down their subscriptions and donations to titutions, charities, and individuals not connected with Yours, etc., e retail? HARD HIT. (168/26.)

SIR,—The decision of the wholesale sundries houses to d 11 per cent. to the price of all proprietary medicines, cluding articles on the Proprietary Articles Trade Asso-tion list, is another burden on the quickly accumulating penses which we have to bear, and in this case it is one ich the retailer will have to pay out of his own pocket its entirety. If it be granted that railway rates are creased and that labour is costing more, it must be membered that the bulk of the proprietary articles have patent-medicine stamp, and consequently are restricted a maximum selling price of 1s. 3d., 3s., and so on as e case may be, and the pharmacist therefore is unable add 1'2 per cent. to his charges to meet the increased st. In the case of those proprietaries which already only ear a margin of a penny on the 1s. 3d. size, the extra per cent. will doubtless be reckoned in halfpennies when dering fractions of a dozen, and it is more than ever perative that pharmacists as a body should definitely fuse to stock such articles until the manufacturers allow living profit. Yours faithfully, THE PROVERBIAL CAMEL. (157/19.)

SIR,—Are chemists going to take the surcharge of 11 per ent. on patents without protest, or are they going to ght against it, or is it that they are making so much oney on Insurance dispensing that a few extra pounds a ear spent on patents are not worth while thinking about? chemist friend of mine told me this week that this per cent. surcharge would cost him more than 501. year. Whenever there is an increase in price of an rticle, no matter if it is on the article or the carriage a it, this extra cost should not come out of the retailer's ocket—it was never meant to be so—it should be put on he purchaser. Now, what is the chemist going to do? The Pharmaceutical Society are no use in this case, as ey are not a trading body, only an examining body; and the chemists have no trade union to fight for them. There he chemists have no trade union to fight for them. ure many, and I should say the majority of chemists o-day, who are getting face-value on patents, and they annot increase the price. I should suggest that all the hemists, through their associations throughout the counry, protest against this surcharge and see if they cannot get the patents retail price increased. It could be easily lone. The Inland Revenue stamp could remain the same, nd patents now face-value 1s. 3d. could be raised to s. 4d. The public would buy them just the same.

Yours truly,

Leeds.

A. H. Jones.

Are Chemists Bound to Dispense?

SIR,—Replying to Mr. J. C. McWalter's statement (C. & D., January 24. p. 74) that "chemists have a monopoly of compounding," I beg to disagree with the statement in its entirety, and suggest that they share the monopoly with their elder brethren, the medical profession. To support my suggestion I put forward the case

of the town in which I reside. There are six medical men, and three pharmaceutical chemists; each of the doctors has a fully equipped pharmacy, to my knowledge, where his own prescriptions are compounded. As far as my experience carries me with regard to other Irish towns, this state of affairs is common, so that while Dr. McWalter can claim that, theoretically, chemists have a "monopoly of compounding," yet, practically, it is really only a small share of the monopo.y that they have. If it could be proved that there is a universal refusal on the part of chemists to compound, then I would agree "that some rectitude of conduct should be exacted from those who call themselves pharmacists and claim a monoply of pharmacy in Ireland"; but as this state of affairs does not. to my knowledge, exist, then I hold that there is not any necessity for creating by-laws to deal with a hypothesis.

I am, Sir, yours faithfully,

Larne R. H. KERR.

SIR,—As Dr. McWalter has failed to bring forward the proofs which I demanded of him, I think it will be admitted that his charge against Irish pharmacists falls to the ground. One would have thought that he would have offered some explanation or apology, but instead he returns to the charge unabashed when he expresses his sorrow that "Messrs. Ferris, Kerr, and Weir do not agree with him tlat some rectitude of conduct ought to be exacted of those who call themselves pharmacists," etc., etc. Only the most perverse mind can fail to see that what Messrs. Ferris, Kerr, and Weir object to is that we should be accused of misconduct in our business affairs. Dr. McWaiter has made such a charge, and I challenged him to prove it. He has failed absolutely to do so, but contents himself with repeating the charge, like a child learning its first lesson. The doctor seems to prefer ethics to logic, but the only logical course open to him now is to withdraw the motion which he has so dismally failed to justify. . .

Ballybofey.

Yours truly, A. E. FERRIS, M.P.S.I.

Sir,—I should be interested to learn what ℓ . $d \cdot D$. readers consider is the average percentage of turnover that is required for salaries, quite apart from what the proprietor takes out of the business for his personal requirements. I think it would be generally conceded that wages have gone up to a greater degree than the retail price of goods that are generally sold by the chemist. I find I am paying 15 per cent. of my takings in wages, and I should like to know how that compares with other businesses.

Establishment Charges.

Yours faithfully.

SELAH. (144/44.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Octarius.

W. H. K. (134/6) writes: What quantity is more commonly dispensed for Oss.—10 onness or 8 ounces? Although the former is strictly correct, I find a large number of chemists interpret the sign on a prescription as meaning 8 ounces

Restoring Discoloured Turpentine.

Referring to J. H. & Co.'s inquiry (C. & D., January 24, p. 76) as to a method of decolourising turpentine that has been stored in an iron drum, Mr. J. Louden, Ph.C., Donaghadee, writes: I solved the problem some time ago in the following way: I placed some washing-soda (in pieces or solution) in a Winchester quart bottle, filled up to the shoulder with the discoloured turpentine, then added cautiously a little sulphuric acid, and tightly corked the bottle. The iron is precipitated, and the turpentine can be decanted from the aqueous liquid. Finding this successful on a small scale, I treated the whole of the ten gallons I had, using an earthenware jar for the purpose. It was completely successful.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

 $H.\ S.\ C.\ (155/54).—Indigestion Mixture, P. F. 36.—The following is the formula :$

 Liq. bismuthi
 5 iiss

 Aq. chlorof.
 5 vij

 Tr. cardam. co.
 3 iiss

 Inf. gent. co. conc.
 5 iij

 Liq. amm. arom.
 5 iij

 Glycerin
 3 ij

 Misce.

R. H. M. (62/15) asks: What chemical action takes place when liq. hydrogenii peroxid, is estimated with solution of copper ammonio-sulphate, as only oxygen is evolved and no decomposition of the ammonia or copper sulphate takes place. What is it that causes the evolution of oxygen? [This very interesting volumetric gasometric test was suggested by Claessens ("Répertoire" [3], 18, 504). who stated that when hydrogen peroxide is mixed with an ammoniacal solution of a copper salt, half its oxygen is quantitatively evolved and water formed. The operation may be conveniently conducted in a nitrometer, the volume of gas giving approximate y the volume of available oxygen. Thus 5 c.c. of the "10 volume" hydrogen peroxide would yield 50 c.c. of oxygen. It is not stated what becomes of the salt used, but a simple experiment will show that here the peroxide acts not as an oxidising agent, as is usual with the introduction of the HO grouping, but exercises the remarkable property that (as is well known) it possesses of reducing silver and certain other metallic oxides to the metallic state. There is no doubt that the cupric salt becomes cuprous salt, for if a comparison of two similar-strength quantities of solution be made, that in which the hydrogen peroxide is placed becomes much paler, and if there be added, after much dilution with water, a few drops of solution of sodium hydrobrom, there will be seen a yellow, red, or brown precipitate which quickly passes to the cupric state again. There is also a black precipitate and much evolution of oxygen. The ammonium sulphate does not appear to change, but with the Cu molecule will doubtless act as an excitant to the initial action. The evolution of oxygen with the copper salt alone is much slower, but reduction does ensue.]

G. H. C. (165/8).—Southall's "Materia Medica" (eighth edition) is published by J. & A. Churchill, 7 Great Marlborough Street, London, W., at 7s. 6d.

W. B. W. M. (162/42).—MILK TESTING.—Leaflet No. 146, issued gratis by the Ministry of Agriculture, 3 St. James's Square, London, S.W. 1, which refers to milk-testing for farmers, mentions 6d. a sample as the fee for determining the percentage of butter-fat in milk. Your fee to the cheese manufacturers for testing milk would depend upon what tests you are required to carry out, but the low standard of remuneration which is set by the Government is not an encouraging factor.

Alpha (17/1).—LAWN SAND FOR DESTROYING WORMS.— The sample you send consists of a brown sand with which is incorporated some preparation of nicotine, probably an extract made from waste tobacco.

V. II. (161/22).—We recommend you to obtain Report IX., "Dental Mechanics," published by the Stationery Office (post free 2d.), Kingsway, London, W.C. 2. This report was produced by the Ministry of Labour and Ministry of Pensions especially to guide disabled soldiers and sailors.

A. B. G. (163/26).—There are no books published on the manufacture of infants' and invalids' foods, so far as we are aware. Several works—mostly medical—touch on the question of the composition of foods, and in "Pharmaceutical Formulas" there are three pages summarising the matter

C. A. W. II. (160/60).—Books on Sugar.—There are several books dealing with the manufacture of sugar, but whether these would meet your requirements we do not know. Thorpe's "Dictionary of Applied Chemistry" is one of the most useful works on such matters as the manufacture of sugars, but it is an expensive work. Other books are Newland's "Sugar" (Spon, 25s.); Deer's "Cane Sugar" (Spon, 20s.); Geerling's "Sugar Cane and its Manufacture" (Spon, 12s.); Broune's "Sugar" (A. & C. Black, 2s. 6d.).

R. M. W. (163/24).—Washing Walls.—Carbolic acid is added to the water with which bug-infested walls are washed. It is an effectual treatment for the purpose.

J. A. P. (166/1).—Inhalant.—The formula for which you inquire is as follows:

 Pine oil
 ...
 ...
 3j.

 Eucalyptus oil
 ...
 3ss.

 Menthol
 ...
 3ss.

 Rectified spirit
 ...
 q.s.

W. B. A. (143/62).—Solution of Sodium Benzoate—The British Pharmacopæia states that sodium benzoate may be made by neutralising benzoic acid with sodium carbonate, but the other way is the better, viz., by neutralising an aqueous solution of sodium carbonate or bicarbonate with benzoic acid. Sodium carbonate Na₂CO₃.10H₂O, purified washing-soda, non-effloresced has a molecular weight of 286 (ultra-refined figures not being used), and this requires two molecular weights of the acid=244, the product being two molecular weights=288 of the salt

 $\begin{array}{c} 2 \overline{\mathrm{HC}}_{7} H_{3} O_{2} + \mathrm{Na}_{2} \mathrm{CO}_{3} 10 \mathrm{H}_{2} \mathrm{O} \\ 2 \times 122 = 244 + 256 \\ = 2 \mathrm{NaC}_{7} H_{5} \mathrm{O}_{n} \ \mathrm{etc.} \\ 2 \times 144 = 288 \end{array}$

The product having practically the same weight as the crystallised sodium carbonate taken. The solubility of the salt is variously stated, the B.P. giving it as 1 in 2 of water. 286 grains of sodium carbonate then are to be dissolved in twice its weight of distilled water, and to it, after warming to 100° F, is added 244 grains of benzoic acid gradually, and after solution and expulsion of carbonic acid gas by warming tested by means of litmus paper (a drop on the end of a glass rod put upon a very small square of blue or red litmus paper resting on a white tile or opaque white-glass panel. When neutral make up the volume with distinct water, as one pleases, for 30 grains per fluid drachm or per 2 or more fluid drachms; finally filter.

J. B. (24/1).—The "Dream Doctor" referred to in the C. a. D., January 24, p. 59, is published by Hodder & Stoughton.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan 15, 1870.

Chloral.

This interesting compound was discovered in 1832, by Liebig, and was obtained by the action of chlorine upon absolute alcohol. The name is significant of its origin, and suggests at once the method of its manufacture. Chlorine alcohol is abbreviated to chloral, just as aldehyde is al(cohol) de(prived of) hyd(rogen). It is worthy of note that nearly simultaneously with Liebig's discovery of chloral in Germany was Guthrie's preparation of chloreform in the United States, and it is somewhat remarkable that, while the former is just coming into notice as an hypnotic agent, the latter has been employed since 1847 as an anæsthetic, and the present investigations upon it would not have been undertaken it it were not for its relations to chloroform. Although Liebig first prepared chloral, yet we are chiefly indebted to Domas for a knowledge of its properties and constitution just as we were for the best investigations upon chloroform.

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Antiseptic for local Gynæcological rse. Price 4/- per box (powder)
,. 5/- ,, (tablets)

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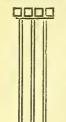
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Crystal or Powder, 99 % Pure		-	_	6d.		92/6 cwt			1/-
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Standard CREAM OF TARTAR. 99%	85/-	_	90/-	10d.	Flowers	32/	_	_	4d.
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All ex Store Man	chester	net	Pure	Dutch W	Thite Maize Crystal Starch &-lb.	papers s	6-lb, cas	es.	

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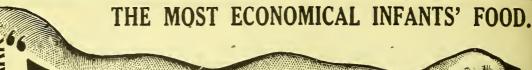
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It makes milk digestible and is invalt

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Rennet in Bulk, in casks 4½ to 100 gallons,								Gall	lon		•••		Per Doz	zen	156/- 1	Net
			1	17 /- per	gallon, I	Vet							1 3		81/-	,,
1 Gallon	Jars	•••		Per Dozen	, 228/-										42/-	,,
$\frac{1}{2}$,,	"	• • •	•••	**	120/-	٠,	12	int					41		24/-	11
Quart	1 11	• • •		11	63/-	11	2	Pint	t						15/-	9.7
Pint	,,		***	93	35/-		1	19	••	•	• • •		1)		9/-	"
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1 ,,	11			,,	12/-	,,	18	17	Ann	atto	But	ter C	olouring		4/6	,,
1/8 ,,	**			11	7/-	11	1.4	11		,	,,		,,		9/-	* *
Quotatio	ns fo	v Es	ssence	of Rennet	,Junket	Por	vd	er ai	nd B	utte	er C	olour	sent on	ap	plicati	on.

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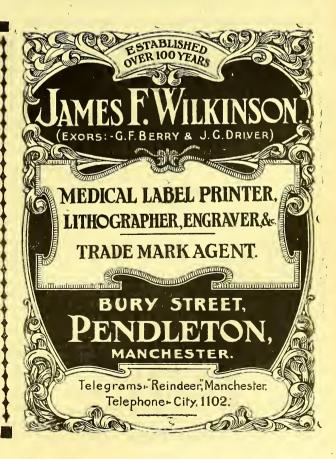
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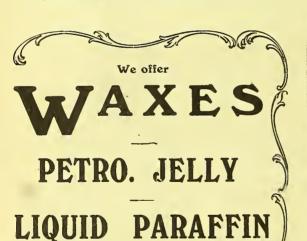
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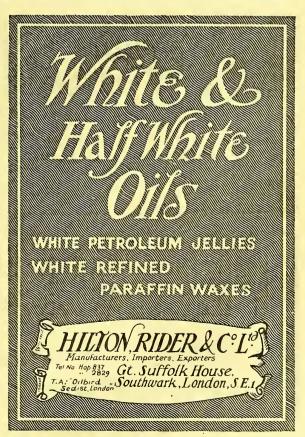
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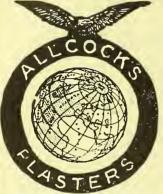
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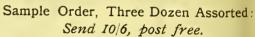
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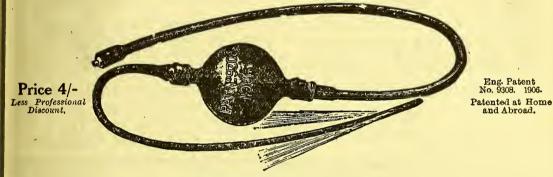


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6"	× 8"	5/3	6/10		$8'' \times 12''$	7/4	9/5
6"	× 10	″ 5/10	7/6		9" × 12"	7/9	10/-
7"	× 10	" 6 /–	7/9	-	8" × 14"	8/-	10/3
6"	× 12	6/2	8/		$10'' \times 12''$	8/3	10/7
7"	× 11	" 6/ 3	8/1	,	$10'' \times 14''$	9/3	11/11
8"	× 10	″ 6/ 7	8/6	ì	$10'' \times 16''$	10/1	13/_
7"	× 12	" 6/9	8/9		$12'' \times 14''$	10/4	13/3
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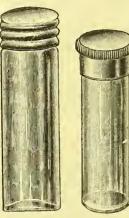
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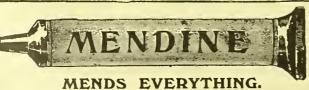
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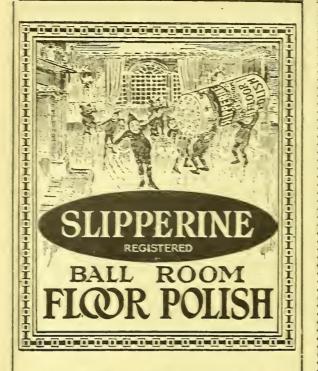
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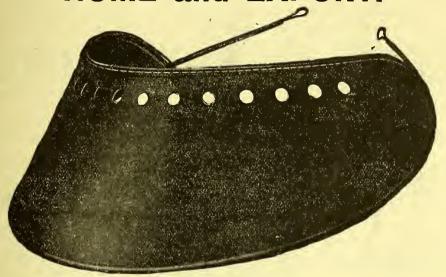


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CANNON ST. NDON, E.C.4. SUPPLEMENT

JANUARY 31, 1920

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WM. THOMSON & MOULTON on WEDNESDAY, the 4th February next, at half-past Two p.m., at the Auction Mart, 14 Cook Street, Liverpool:
Lot 5. Nos. 129 and 129a Lark Lane, and No. 38 Linuet Lane, Sefton Park.—Two Shops, let to a Chemist and Confectioner on quarterly tenancies, at rentals of £75 and £25 per annum respectively, tenants paying rates, together with Dwelling-house, No. 38 Linnet Lane, having a frontage also to Ivanhoe Road, let on a quarterly tenancy of £45 per annum, tenant paying rates, making a total annual rental of £145 per annum. Tenure freehold.
Solicitors: Messrs. R. J. Jones, Sephton, Rolle and Experimental Confederation of Englanding Processing Pr

Solicitors: Messrs. R. J. Jones, Sephton, Rollo and Farmer, 34 Castle Street, Liverpool, Further particulars from the Auctioneers, Wm. Thomson and Moulton, 5 Cook Street, Liverpool.

FOR SALE,

A BOUT 11 oz. genuine Oil of Neroli (Bigarade); what offers; low price to clear; no samples. Leslies, Ltd., 62 London Wall, E.C. 2.

CHEMICAL Balance, by Becker's Sons, Rotterdam; complete with two sets of Weights; practically new. Apply 168/32, Office of this Paper.

SHOP Rounds, 5 dozen; Dispensing Rounds, 4 dozen; Shop

Jars, blue, about 3½ dozen; 2 × 5-grain Pill Machines;

1 × 3-grain ditto; Upright Counter Scales; Wall Cupboard,

5 ft. × 4 ft.; Window Enclosure, 3½ ft. × 11½ ft., with glass
shelves; 2 Carboys. On view, 3 Station Parade, Kew Gardens.

TABLET Machine, Stokes' pattern, "O" size, fast and loose pulleys, never been used; also two 18-inch copper Coating Pans on stand, fast and loose pulleys, never been used; what offers? Apply 36/12, Office of this Paper.

 $6^{\rm \ FT.}$ flat-top Counter Case; also upright one; both unseratched. P.C.B. 32/35, Office of this Paper.

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LAUREL ROAD, LEICESTE

We have cash Buyers for all sizes and classes o business.

SOUTHALL BROS. & BARCLAY. I

(Valuation and Transfer Dept.) Special Terms for Probate and Trading Accounts, Income Tax, etc.

For particulars apply-19, 20, 21 LOWER PRIORY, BIRMINGH

BUSINESSES FOR DISPOSAL

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, p

KING'S CROSS (near).—Old-established Business; returned weekly at good profits under unqualified; good sequalified man; good opening for N.H.I. and Photography up shop and basement; unique position; cash price for fixtures, and goodwill, £450. "Rhei" (42/29), Office

ONDON, W. 1.—Good-class Retail and Dispensing; corn tion; returns last year £1,700, under Manager, cash; rent covered by let-off; books well kept with streturns; owner has other appointment. "De suite" Office of this Paper.

NORTH LINCOLNSHIRE, MARKET TOWN.—For im disposal on health account; returns average over and increasing; main position; rent £50; vendor's of perty; valuation of stock and fixtures and goodwill as are easily worked; Cash Retail. Further particulars apply by 59/50, Office of this Paper.

OUTH WALES (Colliery district).—Good Mixed Retaness for Disposal at valuation of stock and fixtures; last year over £2,600; uo N.H.I.; favourable lense, and oan be increased. Apply Mr. H. W. Harrie, 55 Stamfollondon, N. 16. Letters only.

SUSSEX.—Owner retiring; excellent chance to acquire a Retail and Dispensing Business on casy terms; premises; good window; private entrance; part let off no practically whole rent; part cash, rest by easy insta Apply 27/8, Office of this Paper.

OUSSEX COAST.—Pharmaccutical Chemist's Business in street of a favourite seaside resort; old-establis genuine concern; returns about £5,000; no Panel Dis excellent shop and good dwelling accommodation; £5,500 goodwill, stock, and fixtures; premises can be purchased o Apply Hankinson & Son, Estate Agents, Bournemouth.

ON Sale, the Business Premises of an old-established and Druggist in Preston, Lancashire; the premisel for the purpose, and there is no opposition in the imneighbourhood; first-class living accommodation. Apply Gowling & Ward, Solicitors, Lune Street, Preston.

WELL-ESTABLISHED Manufacturing Chemist's Busin Well-ESTABLISHED Manufacturing Chemist's Busin disposal; engaged in packing well-known ad speciality yielding a good profit; a fine opportunity enterprising Sales Organiser to develop business and external larger company, or the present directorate who have interests would be willing to receive such an experienced in with sufficient capital to take substantial interest and direct in the concern with entire management of same. Appl. references, to 39/13, Office of this Paper.

£1,500 RETURNS.—Well-fitted lock-up Shop, situ increased; gross profit 43%; new, up-to-date stock; long price £50 and valuation about £850. Apply 41/500, Cthis Paper.

BUSINESSES WANTED.

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

SHIRE, SUSSEX, SURREY, KENT, OR SOUTH.—
nted, bona-fide, genuine, good-class Business, returning
2,000 or more, and where an Assistant is kept; eash
idvertiser recently gave up business through ill-health;
s' trial essential; references given and required. Write
itially, Mr. Keeble, 10 Somerset Road, Southsea.

ON SUBURB OR GOOD PROVINCIAL TOWN.—Goods Dispensing and Light Retail, with suitable house; turnover about £2,000 per annum; please state paroflease, rent, taxes, and net profit; eash available, and settlement for a genuine business. A. J. Hall, Middle range, Steeple Aston, Oxon.

Store wanted by unqualified, doing a fair trade, with ng accommodation; Lancashire preferred, but not essenticulars to 43/5, Office of this Paper.

CLASS Retail and Dispensing Rusiness wanted; state rticulars, class of business, rent, lease, turnover, in confimmediate cash. Reply "Aspirin" (39/15), Office of this

Retail and Dispensing Business wanted with house ached; country or seaside business not objected to; hip entertained with view to succession; please give full urs, rent, turnover, lease, etc., and lowest price for spot pply 39/36, Office of this Paper.

TED, good Business in town or country; North pre-red; living accommodation essential; cash available or over. Particulars to "Chemist," 13 Elmwood Road, Hill, London, S.E. 24.

TED, a Business, either in a good agricultural district seaside; preferably a small business with scope for ent; must show a net profit of £250 a year, and have ving accommodation; state lowest price for a cash ion, and give fullest particulars (in strictest confidence). 39/39, Office of this Paper.

TED, a Business within 20 miles of Newcastle-on-Tyne; unopposed country one preferred! cash ready. Give ticulars to 40/2, Office of this Paper.

CASH available, more at command, for a good middle-class Business or Partnership; locality or South-East Coast, or country town in South Midlands hern Counties; high-class, middle-class optical and Dental acc. Address "Rex" (39/33), Office of this Paper.

TO LET.

ct in populous colliery district, Dwelling-house with Busiss premises; centrally situated; excellent opening for diffied Chemist and Druggist. Apply 167/6, Office of this

FINANCIAL.

OGRESSIVE firm of Manufacturing Chemists and Dry-dtery Packers wish to hear from similar firms willing gamate with a view to forming a Public Company appeal-£100,000. Address in confidence to 22/140, Office of this

PREMISES FOR SALE.

ORY.—Well-built and spacious brewery buildings, stables, fice, etc., situate on freehold site of about one-third of e, at Redhill, Surrey, with deep well of water and two for Sale. Apply Bushell & Co., Westerham, Kent.

PARTNERSHIPS.

for 50 words or less ; 6d, for every addition 10 words or less, precaid.

TNERSHIP. Advertiser, desirous of devoting more time of another business, offers half share and salary to smart, man; medium Light Retail and N.H.I., with ample scope acrease; exceptional opportunity for unqualified man to benefit of qualified; capital required, £500; part could Full particulars of experience, etc., to "Midlands" of this Paper.

SITUATIONS OPEN.

RETAIL.

4s. 6d, for 50 worde or less ; 6d. for every additional 10 worde or less, prepaid.

IF you are not a skilled tradesman you can learn a useful trade by joining the ROYAL ARMY MEDICAL CORPS.

There are vacancies in this Corps for skilled and untrained men who can be trained to serve as PHARMACISTS, DISPENSERS, DENTAL MECHANICS, X-RAY OPERATORS, MENTAL AND LABORATORY ATTENDANTS, MASSEURS, OPTICIANS, NURSING OI JDERLIES, and HOSPITAL COOKS.

Skilled men will be paid the rates laid down for their trades, and untrained men will receive 2s. 9d. per day until qualified. Age from 18 upwards.

Full particulars can be obtained from Central Recruiting Depôt, Great Scotland Yard, S.W. 1.

CUMBERLAND.—A vacancy will shortly occur for B thoroughly experienced Managing Assistant for the Retail; must be single. Apply, stating salary and full particulars, to W. Stanley Scott, Manager, Wilson & Kitchin, Wholesale and Retail Chemists, Whitehaven.

DERBY.—Gentlemanly Assistant required for good-class business. Apply, with full particulars, stating salary required, to H. Monkhouse, Chemist, Derby.

DERBYSHIRE.—Qualified Assistant required for middle-class Retail business with N.H.I.; hours moderate; no holiday or Sunday duty. Apply, stating age and salary required, to 40/40, Office of this Paper.

ONDON.—Manager, qualified, reliable, for good middle-class business. Apply 295 High Road, Chiswick, W., giving full particulars by letter, or personally between 3 and 8 p.m. Friday.

ONDON, E.—Qualified Managing Assistant, 30 to 40, to take charge of Retail Department; good salary (outdoors) to suitable man with good experience of modern Cash business and Photography; must have undeniable references. Full particulars, with application. W. S. Potter & Co., Chemists, Plaistow, E.

L ONDON, N.-Unqualified Junior Assistant wanted; N.H.I., Stock, and Counter; must be quick and accurate Dispenser. Apply, stating age and salary required, to 39/8, Office of this Paper.

L ONDON, S.E.—Unqualified Assistant wanted for a Retail business and N.H.I. Dispensing. Applicants state full particulars of experience, references, age, sale quired (outdoors), to 42/25, Office of this Paper. age, salary re-

L ONDON, W.—Assistant (male), with first-class Dispensing experience; state salary (outdoors). Apply 41/10, Office of this Paper.

L ONDON, W.—Assistant wanted for Counter and Dispensing; one with West-End experience and knowledge of French preferred. 'Apply the Manager, Heppell & Co., 26 Piccadilly, W. 1.

LONDON, W.C.-Qualified Assistant, with first-class Counter and Dispensing experience; French-speaking preferred; outdoors. Apply A. Maitland & Co., 8 Torrington Place, W.C. 1.

MANCHESTER.—Junior Assistant, lady or gentleman. Please state age, height, experience, salary required (outdoors), and when disengaged, to A. Jeans, 151 Oxford Road, Manchester. (outdoors),

MIDLANDS.—Reliable Senior Assistant required (about middle of February); used to quick Counter trade; must be good Salesman; permanency to right man; interview preferred; give particulars and salary in first letter. Apply 41/14, Office of this Paper.

A COMPETENT, qualified Assistant for high-class Dispensing business; interview. J. B. Barnes & Son, Pharmacists, 205 Knightsbridge.

A SSISTANT, for about two hours two or three evenings per week, chiefly for N.H.I. or Counter; must be an accurate Dispenser and be well recommended. Apply, personally or by letter, stating terms and full particulars, to S., 4 Greyhound Road, Hammersmith, W. 6.

 $\mathbf{E}^{ ext{XPERIENCED}}$ Assistant for Dispensing Counter; West End. "Statim" (41/24), Office of this Paper.

Homeopathic chemist in West End desires young Asisstant, about to qualify, to keep Books, develop Counter trade, and gradually take over business from present owner (aged 70); easy terms for purchase by annual instalments can be arranged. Write, stating age and salary required, to Fielden, 11 Tothill Street, Westminster, S.W. 1.

JUNIOR or Improver required for quick Retail and N.H.I. Dis-pensing business; S.E. district, near London Bridge; no Sunday duty. Apply 42/24, Office of this Paper.

JUNIOR Assistant (young) required for General Retail and N.H.I. Dispensing. State salary required (outdoors) and full particulars to J. Patterson, 52 Ilford Lane, Ilford.

ADY Assistant required; must be a capable Saleswoman and Window-dresser, and experieuced in good-class Pharmney. Apply Manager, Sloane Pharmaey, Sloane Square, S.W. 3.

LADY Dispenser and Bookkeeper required on March 1st; London suburb; hours 9 till 6; afternate Sundays and one day a month free; Dispenser kept for evening work and to relieve when necessary. Apply by letter in first instance, stating salary required, to Dr. Jenkins, 140 Upper Richmond

ADY Pharmacist required; Dispensing and Counter; moderate hours; close 1 p.m. Thursdays; no Sunday duty; salary (indoors) £2 2s. per week. R. S. Cheetham, The Bright Pharmacy, Peterborough.

EWIS & BURROWS have vacancies for first-class Counter Assistants. Apply, giving full particulars of experience, to 146 Holborn Bars, E.C. Outdoors; no Sunday or night duty.

MANAGER (qualified preferred) required for small Retail, Wholesale Manufacturing Chemist in Midlands. State full experience, with salary required, first letter, 41/2, Office of this Paper.

PARKE'S Drug Stores, Ltd., require the services of a Pharmacist, as Branch Manager; applicant must be initiative, energetic, and with a knowledge of Photography; references must bear the strictest investigation.—Apply personally any day 10-12 a.m. except Saturday, 65 Harmood Street, Kentish Town, N.W.

QUALIFIED Assistant wanted, to work up newly-opened branch in Kensington; good opening for suitable man. Reply, stating experience, salary asked, etc., to "Chemicus" (42/4), Office of this Paper.

QUALIFIED Manager required (at once) for small branch in Central London; outdoor; no Sunday duty; young man preferred; good experience and satisfactory references necessary. Boutalls, Ltd., 150 Southampton Row, W.C. 1.

REQUIRED (now or later), a first-class Managing Senior (36 a man of initiative and industry, capable of handling affairs; preference given to one who has no particular prospects and is prepared to settle down in and identify himself with the business; commencing salary £6 per week. Letters only, with photo (in confidence), "Opportunity," 26 Woodville Road, Ealing, W.

REQUIRED, smart Counter Assistant; unqualified. State age, salary; photo, etc.; hours 9 till 8, Wednesday 1 p.m., Saturday 9 p.m. W. E. Matthews, Ltd., 40 George Street,

WANTED, for a first-class West-End business, a really smart, unqualified Assistant, about 30 years of age; one who is a thorough good Counterman and knows his business can have exceptional opportunities of advancement. Apply, giving full particulars, to "Beatty" (P.C.B. 32/2), Office of this Paper.

WANTED, a qualified Chemist (lady or gentleman) to manage; North of England village, 15 miles from Newcastle-on-Tyne; state salary required, usual hours; N.H.I. Dispensing; bonus on profits above stated sum. Apply 35/10, Office of this

WANTED, qualified Manager; knowledge of Photography and good Wiadow-dresser; comfortable berth for suitable married man. Apply, stating salary required, to 159/16, Office of this

WANTED (shortly), capable, qualified Manager, young and energetic, in Kent; good Window-dresser, with knowledge of Photography; redecorated house provided over. Full particulars and salary required to 42/9, Office of this Paper.

WANTED (immediately), French-speaking Assistant, unqualified, with West-End experience preferred. Apply the Manager, Heppells, 78 Strand, W.C.

WANTED (Pontefract), qualified Assistant, to take charge of branch; state experience, references, and salary required. Apply B. Dunford, Wholesale Druggist, Castleford Road, Nor-

WANTED, Junior Assistant (outdoors); quick Cash trade and N.H.I. Dispensing. Apply Goosey & Rogers, 51 Ben Jonsou Road, Stepney, E. 1.

WANTED, Manager for branch. Apply W. Bowden, 62 Hill Road, Wimbledon.

Y OUNG and energetic Manager required (shortly) for Barry Dock branch. State age, experience, salary required, enclose photo if possible, Hicks & Co., Duke Street, Cardiff.

WHOLESALE.

ONDON Representative wanted for old-established p firm of Manufacturing Chemists, etc.; proprietors of well-known advertised specialities stocked by Chemists, Corn Merchants, etc.; applicants must have had preperience of London ground; those already working agency not objected to. State qualifications and fulficulars to "L. R. 438," c/o Deacons, Leadenhall Street,

CAPABLE, experienced man required to take charge staff in manufacturing and packing Medicinal Fr for Chemists in Midlands; qualification not absolutely Apply, stating age, experience, and salary required, to (166/64), Office of this Paper.

COUNTER Hands (female) for Wets and Drys required Burgoyne, Burbidges & Co., Ltd., East Ham.

EXPERIENCED man required to take charge of a Dr. Room (Wets and Drys). Apply by letter, stating of age, and salary required, P.C.B. 32/17, Office of this Pt

MANAGING Director of rapidly growing Wholesale turing Chemists desires services of a "Right-han to relieve him of detail worries; preference given to business man; gentieman with about £1,000 to investiven a seat upon the board; salary and share of profits give full particulars, salary expected, references, etc. fidence, to "Provincial" (42/27), Office of this Paper.

PERFUMERY AND TOILET PREPARATIONS.—Lone requires experienced man or woman to assist in man of goods and supervision of factory. Apply 162/26, Office

PILL and Tablet Maker required by old-established V Druggists, S.E. Loadon. State experience, age, an required, to 164/53, Office of this Paper.

QUALIFIED Chemist required, to supervise Tablet 1 ture; similar experience essential. Particulars and required to 169/21, Office of this Paper.

QUALIFIED.—Large firm of Manufacturing Chem vacancy for qualified lady or gentleman for supervisia connection with Labels, Packings, etc.; previous experinceessary. Send particulars of age, salary required, and occupation, etc., to 16Q'58, Office of this Paper.

REPRESENTATIVE wanted to work London, N.E., E. aud E.; excellent position for capable man; must be energetic, gentlemanly, and have previous experience road; one with good connection over the ground mention ferred; no one without previous experience need apply. H. Cox & Co., Ltd., Brighton.

REPRESENTATIVES required for London and Wales have connection among Chemists, Stores, Grocers Specialities, and Packed Lines; fullest particulars required 167/62, Office of this Paper.

REQUIRED, Travellers on a commission basis in the mentioned territories: North Wales, North East Corconst, South Coast, and Central Counties; lines to be high-class, attractively packed, registered P.A.T.A. art oluding a Tonic Wine, Nutritive Biscuits, and Chocola and Malt Extracts, etc. Apply 163/59, Office of this Pa

TRAVELLERS required; able to push lines in Br Toilet Paraffin, Bay Rum, etc. P. C. B. 29/350,

WANTED, Emulsion Maker; must have experience in facture of Embrocations on large scale. 169,14, this Paper.

WE WANT TRAVELLERS

Somerset. Shropshire. Gloucestershire. Herefordshire. Welsh Counties.

Cumberland.

Welsh Counties Woreestershire.

Wiltshire. Hertford. Middlesex Northumberland. Durham.

Welsh Counties.
Eastern Counties.
S. & E. Midlands.
South Coast.
N. & S.W. & S.E. London.
Live Salesman, with established connection among Chemis able to push WELL-ADVERTISED, profitable, and at lines on good commission. Apply, stating ground cover references, to 41/12, Office of this Paper.

WELL-KNOWN, old-established provincial Manufacturi have a vacancy for Representative; good opportual ambitious and energetic Salesman, accustomed to Chemis dries. Full particulars, experience, age, remuneration to Office of this Paper.

WORKS Chemist required by large manufacturing household have had experience in Cocon, Chocolute, and Conference, stating age, experience, and salary required, to Office of this Paper.

Chemist (preferably with Major qualification); comto undertake Analytical work and assist in the manu-Galenicals under the supervision of Laboratory Apply, stating experience and salary required, to ce of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

INE AND BRAZIL.—Experienced Pill Maker with st reforences required for established small plant; 10 per annum; passage paid out and home; applicants in London. Write, giving full details of experience, " (P.C.B. 162/68), Office of this Paper.

ST.—Chemist., qualified preferred, age 23.28, unicd, with first-class Retail Counter and Dispensing; passage paid out and home; four years' agreement; y and prospects for suitable man. Givo full details 31/28, Office of this Paper.

-Qualified Assistant; knowledge of French and Contal experience; outdoors; short hours; no Sunday or y; state age, experience, references, and salary refirst letter; permanency, with good prospects, for suitsend photograph, which will be returned. Roberts Rue de la Paix, Paris.

AMERICA.—A gentleman resident in the Argentine blic required by a firm of manufacturers of Packed older articles, Sundries and Tins suitable for Chemists' trades; ready selling goods; substantial commission to oplicant. Apply 166/19, Office of this Paper.

S SETTLEMENTS. — Assistant, unmarried, with aist's qualification, a good knowledge of Optics desir-years' agreement; passage paid out and home; solary £420, second and third years £455, fourth year £490.0/34, Office of this Paper.

SITUATIONS WANTED,

[HOME.]

RETAIL.

A.—COMPETENT Assistant; age 25; experienced Salesman; quick and accurate Dispenser; capaking charge: excellent references; London only; telefadd. 2875. G. Hallett. 17 Craven Road, Hyde Park,

ABLE Assistant; 29; 11 years' experience Counter, seasing, and Photographic; highest references; demobision engagement entertained. Apply 39/32, Office of this

Y of four years' experience desires post as Dispenser with tor only, in or near Birmingham. Apply 39/37, Office 'aper.

Y Chemist (M.P.S.) desires post, Retail, Wholesale, or titution in Liverpool or district, or would represent good North; over 10 years' experience; unexceptionable crepersoaal interview preferred; disengaged. State particu-3/3, Office of this Paper.

LIFIED Chemist, 33, wide experience in all branches of iness, Dispensing, Prescribing, Counter, Photography, ost as Maaager; excellent references as to integrity and Apply 39/29, Office of this Paper.

ALIFIED Chemist requires post as Manager, Assistant, Locum; London preferred; disengaged. McCorquodale, more Road, Hampstead.

ALIFIED Chemist, 24, married, with experience of Retail, nolesale, Manufacturing, and Photography, desires post class business; excellent references; disengaged. H. N. "Glenhead," Bassett, Southampton.

ALL salary for short hours; Army pensioner; abstainer; years' all-round Retail experience; disengaged. Sobey, lotel, 229 Westminster Bridge Road, London, S.E.

A DVERTISER requires position as Assistant or Dispenser; good references; Birmingham district preferred. Dobbs, 59 College Road, Saltley, Birmingham.

A DVERTISER, qualified, 24; experienced Dispenser and Counterman, Bristol district or South Wales • preferred. State salary, etc., to "Radix" (36/9), Office of this Paper.

A DVERTISER, Student-Associate, age 32, good address, seeks Assistantship with Chemist, with a view to future prospects; could at present deposit £100. "R. F." (41/26), Office of this Paper.

AS qualified Manager; disengaged; London and provincial experience; permanency preferred. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

A S Locum or Manager; qualified; 43; disengaged; moderate terms; thoroughly experienced Retail and Dispensing. "Chemist," 11 Laurie Avenue, Burford Road, Nottingham.

A S Manager; qualified, elderly; active business habits; good Counterman, Dispenser, Prescriber; reasonable wages; at liberty; London or country. Apply 39/16, Office of this Paper.

As Manager, Senior, Locum; qualified; disengaged; 20 years' all-round experience; up-to-date Photography, Counter, and Dark-room. "Chemist," 26 Walton Road, Upton Park, London, E. 13.

A^S part-time or evenings; thoroughly experienced Locum; smart, neat, quick Dispenser; good Counter Salesman. G., 122 Scott-Ellis Gardens, St. John's Wood, N.W.

A SSISTANT, qualified in accordance with National Insurance Act, 1911, 20 years' experience in Doctors' Dispensing, would like to learn Counter work with Chemist; best of references. Harris, 16 St. Mary's Street, Canterbury.

A SSISTANT; capable of taking charge; tall; experienced in brisk Counter work and Dispensing; 27; unqualified; disengaged; please state salary; Yorkshire preferred. "Energia" (39/23), Office of this Paper.

A SSISTANT, unqualified, 29, desires situation; Bristol district preferred; Counter and Dispensing. Searle, 2 Carlisle Avenue, Plymouth.

A SSISTANT, 25, unqualified; 11 years' varied experience; competent,, trustworthy; Birmingham district. Farley, c/o Dorrell, Wheeler Street, Maidstone, Kent.

A SSISTANT, qualified, 28, desires situation in suburban or country Retail. Apply E. Northend, 10 Conduit Road, Sheffield.

A SSISTANT (ledy); unqualified; good Counter and Photographic experience; highest references. G. B., c/o Messrs. Atkins & Son, Chemists, Salisbury.

A SSISTANT; qualified; 28; tall; good appearance; energetic; first-class experience; capable of taking charge if required; Bath or Southern England; state hours, wages. Apply 27/18, Office of this Paper.

A SSISTANT, unqualified, 28, demobilised, desires situation in Retail, where one or two are kept; good references; salary moderate; abstainer. Apply 40/27, Office of this Paper.

A SSISTANT; 20; Dispensing and Counter; good references; state salary; Midlands preferred. Apply 40/28, Office of this Paper.

 $\begin{array}{ccccc} A & \text{SSISTANT, lady, unqualified, desires post in Birmingham;} \\ A_{\frac{31}{2}} & \text{years' experience Dispensing and Counter; highest references; disengaged.} & \text{Apply 40/30, Office of this Paper.} \end{array}$

A SSISTANT; 22; unqualified; experienced high-class Dispensing and Counter; excellent references; recently demobilised. Full particulars to Jeffs, 42 Morel Street ,Barry.

A SSISTANT, experienced, senior, unqualified, disengaged; reliable, trustworthy. "Assistant," 36 Chnrch Street, Woolwich.

A SSISTANT; unqualified; all-round experience; London only. "Radix," 72 Tremadoc Road, Clapham, S.W.

A SSISTANT; unqualified; ten years' experience; good reference. R. Fairburn, Killamarsh, Sheffield.

A SSISTANT; unqualified; 26; N.H.I., Stock, and Counter experience; 4 years last sit; recently demobilised. Harris, 22 Sulina Road, Brixton Hill, S.W.

A SSISTANT; unqualified; 26; tall; 10 years' good all-round experience in Dispensing, quick Counter, Photography, windows, etc.; disengaged; kindly state salary. "Hexamine" (41/39). Office of this Paper.

A SSISTANT, unqualified, desires situation; 26; 8 years' varied experience; excellent testimonials; kindly state salary. Apply 42/12. Office of this Paper.

A SSISTANT (lady), experienced high-class Dispensing, Counter, Prescribing, desires post with Chemist or as Dispenser to Doctor; disengaged. 42/32, Office of this Paper.

A SSISTANT, unqualified, married, desires position, Nottingham or district if possible; relief or Locum work not objected to; present position 2½ years. 41/32, Office of this Paper.

A T liberty, smart Junior; four years' Counter and Dispensing experience; good Window-dresser; Manchester district. Apply 39/26, Office of this Paper.

Before deciding your Branch Manager write me; 15 years' experience; success assured; married; permanency. "P. Q." (37/11), Office of this Paper.

BIRMINGHAM or district preferred, qualified, 36, disengaged for about six weeks, desires temporary engagement; very moderate salary; bost experience and references. "E. T." (39/22), Office of this Paper.

BOOKKEEPING.—Advertiser desires evening work after five; 25 years' counting-house experience. "W, J." (39/3), Office of this Paper.

BRIGHTON DISTRICT.—Has any Chemist vacancy for experienced Managing Assistant, unqualified, 25, married, exservice man, who is being replaced by qualified lady? Disengaged end February; finent French; good Counter, Dispensing, Prescribing experience; excellent references. "S.," 15 Round Hill Crescent, Brighton.

CLERICAL work, any kind, evenings. Address "F. G." (186/36), Office of this Paper.

DEMOBILISED; Assistant; unqualified; abstainer; twelve years' good all-round experience in London and provinces; good references. Bevan, 107 Tring Road, Aylesbury, Bucks.

DISPENSER (Hall) seeks post; experienced in Hospital work and usual routine of Doctor's Surgery, Bookkeeping, Typing; excellent testimonials. Miss Russell, 64 Elfindale Road, S.E. 24.

DISPENSER.—Lady (Hall qualification) requires post; Chemist, Doctor, or Institution. Apply 39/5, Office of this Paper.

DISPENSER (lady) desires post in Pharmacy or Dispensary; excellent reference; Newcastle-on-Tyne district preferred. Apply Siger, 18 Evesham Avenue, Monkseaton, Northumberland.

DISPENSER; recently demobilised; eight years' experience; prefer Doctor or Institution. "R," 5 Clifton Terrace, Barnstaple.

DISPENSER (Hall), lady, experienced in Hospital, Institution, and Surgery work, excellent testimonials, seeks post in or near London. 42/39, Office of this Paper.

DISPENSING.—Lady (Hall), good experience, desires post; Doctors or Institution. "A.," 1 The Avenue, Beckenham.

DISPENSING.—Young lady, with some experience in Dispensing and Bookkeeping, wishes for part-time post; preferably Doctor or Institution. 42/22, Office of this Paper.

RNERGETIC, unqualified Assistant, over 15 years' experience in high-class Dispensing and Counter work; Surgical knowledge; Photography; excellent references; permanency; London preferred, but not essential. B. C. (41/16), Office of this Paper.

EVENINGS and one half-day; also Sunday duty; or Window-dressing. 43/11, Office of this Paper.

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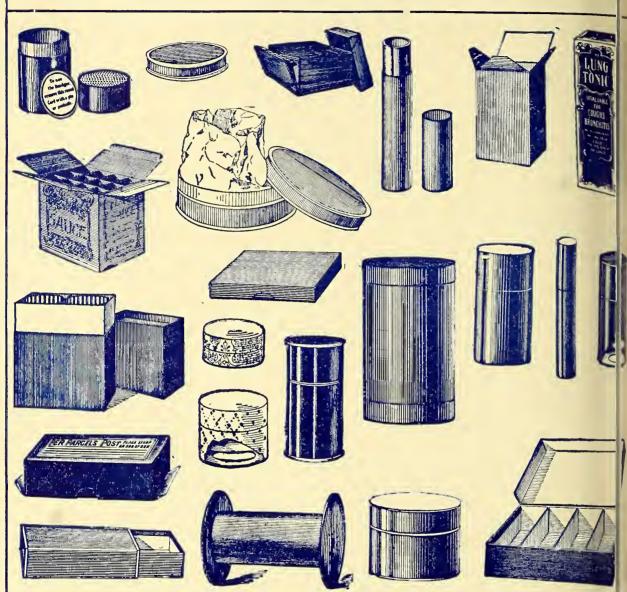
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